Test Center Name	Jolon Bigital Zone iDZ & Sector 62 Haryar	TOOK A F
Test Date	26/09/2029 Haryar	<b>DSSSB-AE</b>
Test Time	4:30 PM - 6:30 PM	
Subject	Assistant Engineer (Civil)	3/20
		<b>0, 20</b>
Costion : Conoral Ability		

# Section : General Ability

Q.1 In the question statement are given, followed by two arguments, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which argument(s) is/are strong based on the information provided.

Statement : Should the private sector be completely nationalised in India?

outonion i onothe the private decici de completely nationalised in male.

Argument I: Yes, the only way to develop the private sector is by nationalising them. Argument II: No, because after nationalisation the private sector will operate less efficiently.

Ans X A. Both I and II are strong

X B. Only argument II is strong

C. Neither I nor II is strong

X D. Only argument I is strong

Question ID: 97675518401

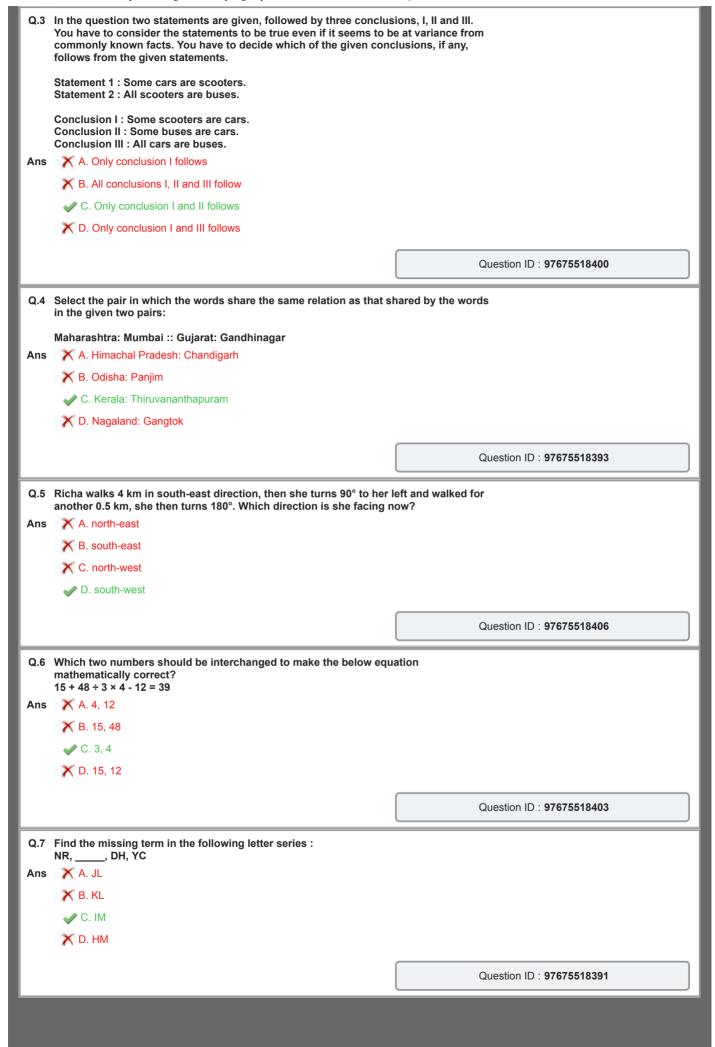
Q.2 Ashish cycles 11 km south, then turns west and cycles 8 km, then turns north and cycles 6 km, then turns east and cycles 2 km, then turns to his left and cycles 5 km.

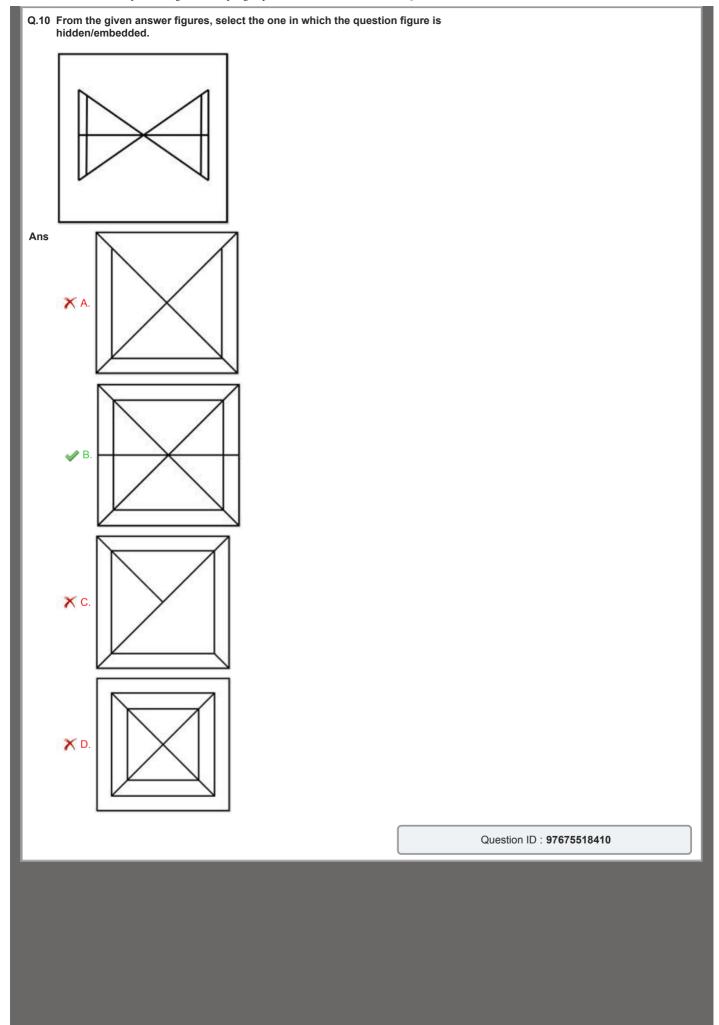
Where is he now with reference to his starting position?

Ans X A. 6 km east

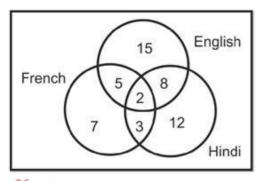
X B. 8 km east X C. 8 km west

D. 6 km west





Q.11 The given Venn diagram shows the number of students in a class who can speak various languages. How many students can only speak one language?



X A. 18

X B. 36

√ C. 34

X D. 16

Question ID: 97675518404

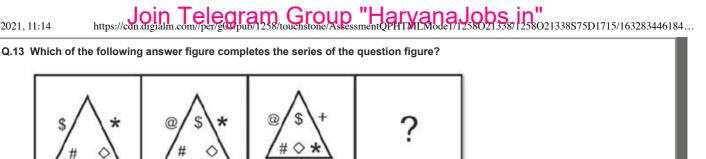
Q.12 If LOCK is coded as 14-13-5-9, then what is the code for PEST?

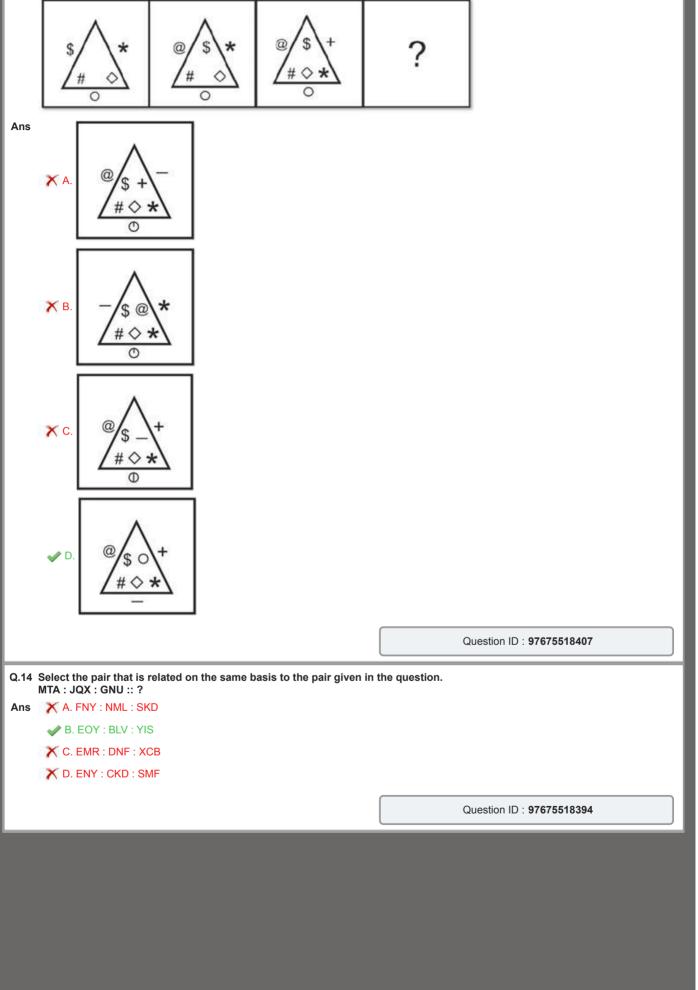
X A. 18-3-20-18

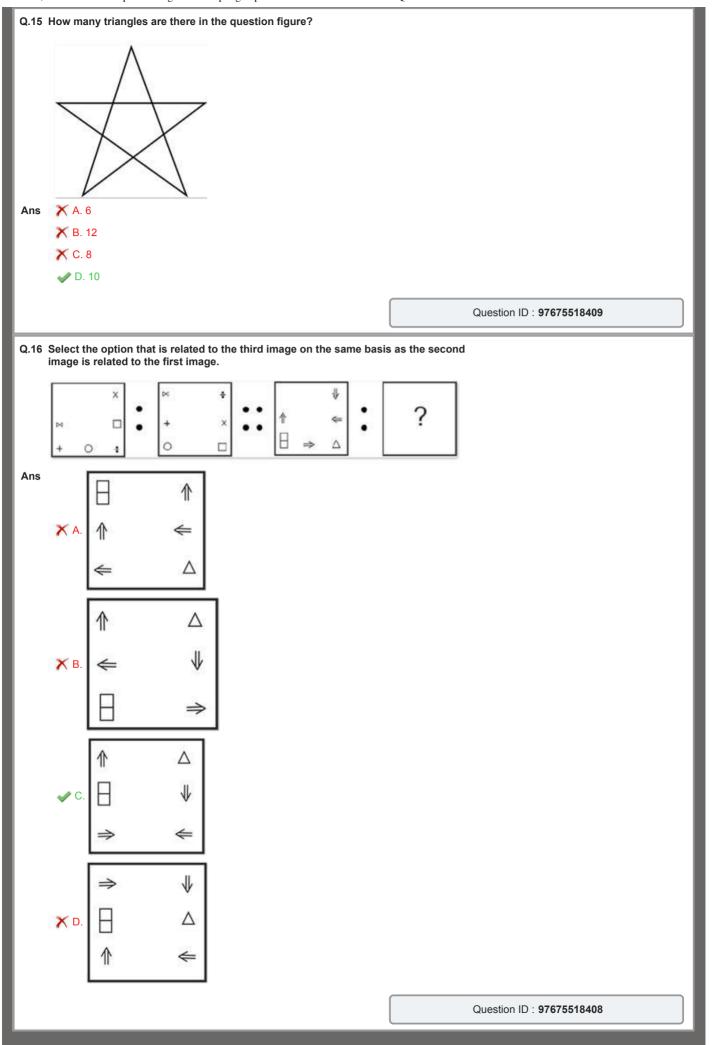
✓ B. 18-3-21-18

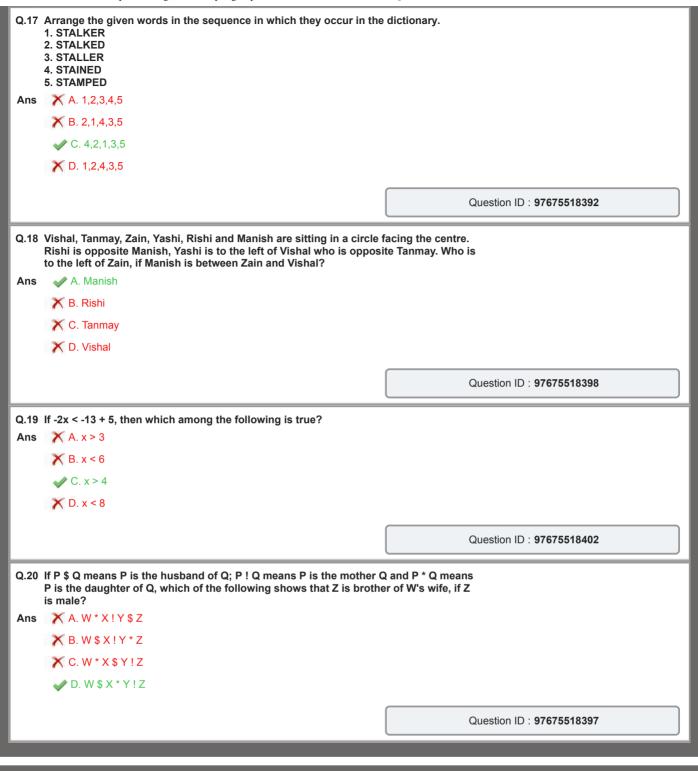
X C. 18-4-21-19

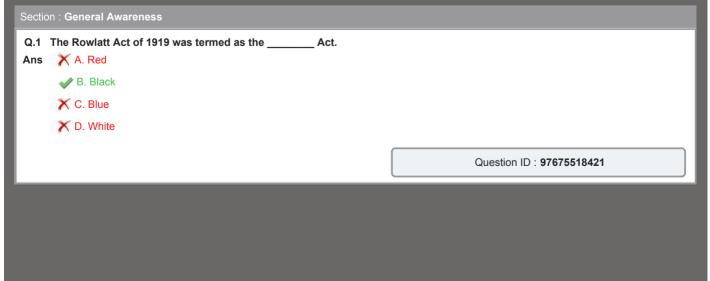
X D. 17-4-20-19











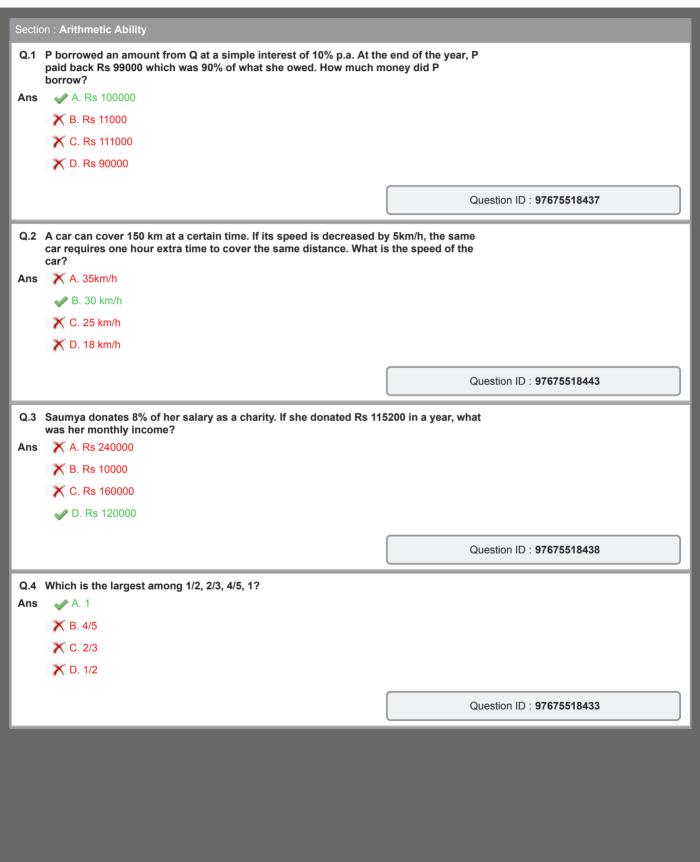
	Who won the BBC Indian Sportswoman of the Year 2021?	
Ans	X A. Sania Mirza	
	B. P.V. Sindhu	
	C. Koneru Humpy	
	D. Saina Nehwal	
		Question ID : 97675518429
		Question ID : 97075516425
Q.3	Baglihar Dam, built across Chenab river, is located in	
Ans	✓ A. Jammu and Kashmir	
	X B. Himachal Pradesh	
	C. Uttarakhand	
	X D. Punjab	
		Question ID : 97675518420
-		
Q.4	As announced in the Budget 2021, to promote seaweed cultivation, Multipurpose Seaweed Park in by Indian Government.	Govt. will establish
Ans	X A. Pondicherry	
	✓ B. Tamil Nadu	
	X C. Assam	
	X D. West Bengal	
		Question ID : 97675518414
	W A 50 1 W W 1	
Q.5 Ans	We Are Displaced' is written by  A. Venkaiah Naidu	
Allo	✓ B. Malala Yousafzai	
	C. Meenakshi Lekhi	
	X D. Shashi Tharoor	
	D. Glasiii Halooi	
		Question ID : 97675518424
⊢		
	What is the scientific name of Vitamin D?	
Ans	X A. Thiamine	
	X B. Riboflavin	
	C. Calciferol	
	D. Tocopherol	
		Question ID : 97675518415
		Question ID . 3/0/3310413
Q.7	was called the First Truly Swadeshi bank and it w	as founded in the
١.	year 1911.	
Ans	X A. Canara Bank	
	X B. Bank of Baroda	
	C. Central Bank of India	
	D. Punjab National Bank	
		Question ID : 97675518413
		Question D : 3/0/33/0413

	ı
Q.8 When was the second battle of Panipat fought?	
Ans X A. 1761	
<b>♦</b> B. 1556	
X C. 1628	
X D. 1527	
	Question ID : 97675518422
Q.9 Solheim Cup is associated with which of the following games?	
Ans A. Golf	
X B. Cricket	
C. Football	
X D. Hockey	
	Question ID : 97675518430
Q.10 In 1945, Shimla Conference was proposed by to solve the	e political deadlock.
Ans   A. Lord Wavell	
B. Lord Cornwallis	
C. Lord Irwin	
D. Lord Canning	
	Question ID : 97675518423
Q.11 Powada are usually ballads sung for the heroes of the past. It is as of the following states?	sociated with which
Ans X A. Tamil Nadu	
✓ B. Maharashtra	
C. Madhya Pradesh	
X D. Odisha	
	Outselfer ID - 07075540444
	Question ID : 97675518411
Q.12 Which among the following constitutional amendments is associate	ed with the
formation of Arunachal Pradesh legislative assembly?  Ans X A. 32nd	
✓ B. 37th	
➤ C. 25th	
X D. 28th	
D. 2001	
	Question ID : 97675518428
Q.13 United Nations Children's Fund (UNICEF) was founded in	<del>.</del>
Ans X A. 1948	
<b>★</b> B. 1945	
<b>✓</b> C. 1946	
X D. 1947	
	Outstier ID : OTOTTES (CO.
	Question ID : 97675518426

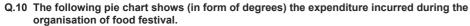
Q.14 The concept of Fundamental Duties in the Indian constitution is borrowed from the			
Ans	constitution of		
	A. Union of Soviet Socialist Republics (USSR)  **B. France**		
	X C. Ireland		
	X D. Canada		
		Question ID : 97675518427	
Q.15	Snails belongs to animal phylum.		
Ans	X A. Anthropoda		
	B. Echinodermata		
	C. Platyhelminthes		
	✓ D. Mollusca		
		Question ID : 97675518417	
		Q000.0111B : 01010010111	
Q.16	Performed by the community of snake charmers, dandancers emulating the movements of snakes.	ce involves	
Ans	X A. Ghoomar		
	X B. Chari		
	C. Kalbelia		
	X D. Kachchhi Ghodi		
		Ougotion ID + 07675549442	
		Question ID : 97675518412	
Q.17	Black soil is also known as 'Black Soil'.		
Ans	✓ A. Cotton		
	X B. Bajara		
	C. Maize		
	X D. Rice		
		Question ID : 97675518419	
Q.18	Which among the following films won the Oscar award 2020 for the Feature Film of the year?	Best International	
Ans	X A. Corpus Christi		
	X B. Honeyland		
	C. Pain and Glory		
	✓ D. Parasite		
		Question ID : 97675518425	
		Question ID . 97070010420	
Q.19	are called the amphibians of the plant kingdom.		
Ans	X A. Gymnosperms		
	X B. Angiosperms		
	C. Bryophytes		
	D. Pteridophytes		
		Question ID : 97675518416	

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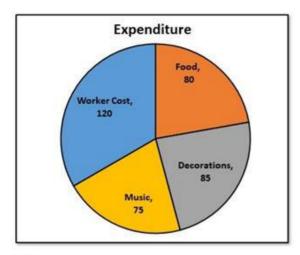
Q.20 Which among the following mountain ranges is the longest in the Lesser Himalayas? Ans X A. Mahabharat Lekh B. Pir Panjal X C. Dhauladhar X D. Nag Tibba Question ID: 97675518418



Q.5	A trader cheats his customers by using weight x% less than the true weight. On selling an item worth Rs 2000 per kilo at the cost price he makes a profit of 25%. What is the value of x?	
Ans	✓ A. 20%	
	<b>★</b> B. 30%	
	<b>★</b> C. 25%	
	X D. 50%	
		Question ID : 97675518440
Q.6	A cone of radius 5 cm and height 12 cm was attached to a solid cyli dimensions. What will be the total cost of painting the entire solid at per sq cm?	
Ans	X A. Rs 660	
	X B. Rs 66000	
	✓ C. Rs 6600	
	X D. Rs 6000	
		0 11 12 222224
		Question ID : 97675518446
Q.7	A 70 litre mixture has liquids A and B in the ratio 5 : 9. How many lit must be added so that the ratio becomes 2 : 3?	res of liquid A
Ans	X A. 4 litres	
	X B. 10 litres	
	C. 3 litres	
	✓ D. 5 litres	
		Overting ID - 07075540444
		Question ID : 97675518441
Q.8	In a village a well of height 60 m and of diameter 4 m was dug and the dug out was spread out in the shape of a cone of height 20 m. What of the cone so formed?	ne earth that was will be the radius
Ans	X A. 3 m	
	<b>★</b> B. 10 m	
ı	<b>★</b> C. 5 m	
ı	<b>✓</b> D. 6 m	
ı		
ı		Question ID : 97675518445
Q.9	The average height of a class of 40 students is 100 cm. If height of t included, the average increases by 1 cm. What is the height of the to	
Ans	X A. 140 cm	
ı	<b>✓</b> B. 141 cm	
	X C. 142 cm	
	X D. 143 cm	
		Ougstion ID + 07675540436
		Question ID : 97675518436



There were 20 workers employed for the event and each was to be paid Rs 25000 in cash. What was the total expense of the event?



Ans

X A. Rs 15000000

X C. Rs 15000

X D. Rs 150000

Question ID: 97675518448

Q.11 P and Q were to compete in a 12 km race. P takes 2 hours less than Q to complete the race. Had Q increased his speed by 100%, he would have completed the race in 3 hours. What is the speed of P?

✓ A. 3 km/h

X B. 4 km/h

X C. 2 km/h

X D. 1 km/h

Question ID: 97675518442

Q.12 Irina and Isla can complete a piece of work in 20 and 25 days respectively. If they were working together, what percent of the work will be completed in 5 days?

Ans X A. 36%

**B**. 45%

X C. 30%

X D. 40%

Question ID: 97675518444

Q.13 What is the LCM of 24 and 36?

Ans X A. 44

X B. 48

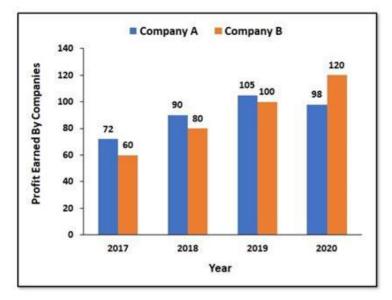
X C. 36

✓ D. 72

What must be added to 45680 to make it exactly divis	sible by 9?
<b>X</b> A. 0	
<b>X</b> B. 1	
<b>★</b> C. 5	
<b>✓</b> D. 4	
	Question ID : 97675518432
The following bar graph gives the average marks dis	tributions of 50 girls and 40 boys
in a class. What is the average marks of the students in Math? [	
■ Girls ■ Boys	
50 -	45
45 - 40 40	
9 25 - 25	25
20 -	
₹ 15 -	
5 -	
Math Science English	History
Subject	
× A. 26	
<b>★</b> B. 25	
<b>✓</b> C. 27	
X D. 24	
	Ougation ID + 07675549440
	Question ID : 97675518449
What is the number which on dividing 80 and 85 leav respectively?	res a remainder of 3 and 1
× A. 5	
<b>★</b> B. 6	
<b>◇</b> C. 7	
<ul><li>✓ C. 7</li><li>✓ D. 11</li></ul>	
	Question ID : 97675518434
	The following bar graph gives the average marks disin a class.  What is the average marks of the students in Math? [integer]  Girls Boys  Girls Boys  A. 26  B. 25  C. 27  D. 24  What is the number which on dividing 80 and 85 leaverespectively?

Q.17 The following graph gives the details of the profit earned by companies A and B in Rs lakhs over the years.

Which of the following years has the highest difference in profit between A and B?



Ans

✓ A. 2020

X B. 2018

X C. 2017

X D. 2019

Question ID: 97675518450

Q.18 The following table gives the production ratio of wheat and jute. If the total cost of production in 2018 was Rs 18 lakhs, what was the cost of production of wheat for the same year?

YEAR	RATIO	
	WHEAT	JUTE
2017	3	4
2018	2	3
2019	1	2
2020	6	5

Ans

X A. Rs 5 lakhs

B. Rs 7.2 lakhs

X C. Rs 6 lakhs

X D. Rs 8 lakhs

Question ID: 97675518447

Q.19 Which of the following is the single discount equivalent to successive discounts of 10% and 20%?

Ans

X A. 15%

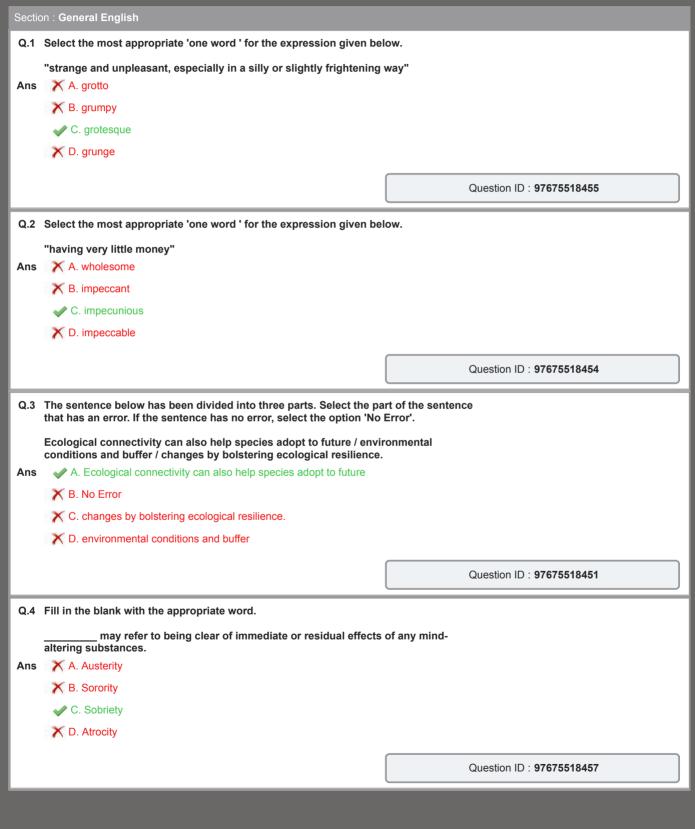
B. 28%

X C. 32%

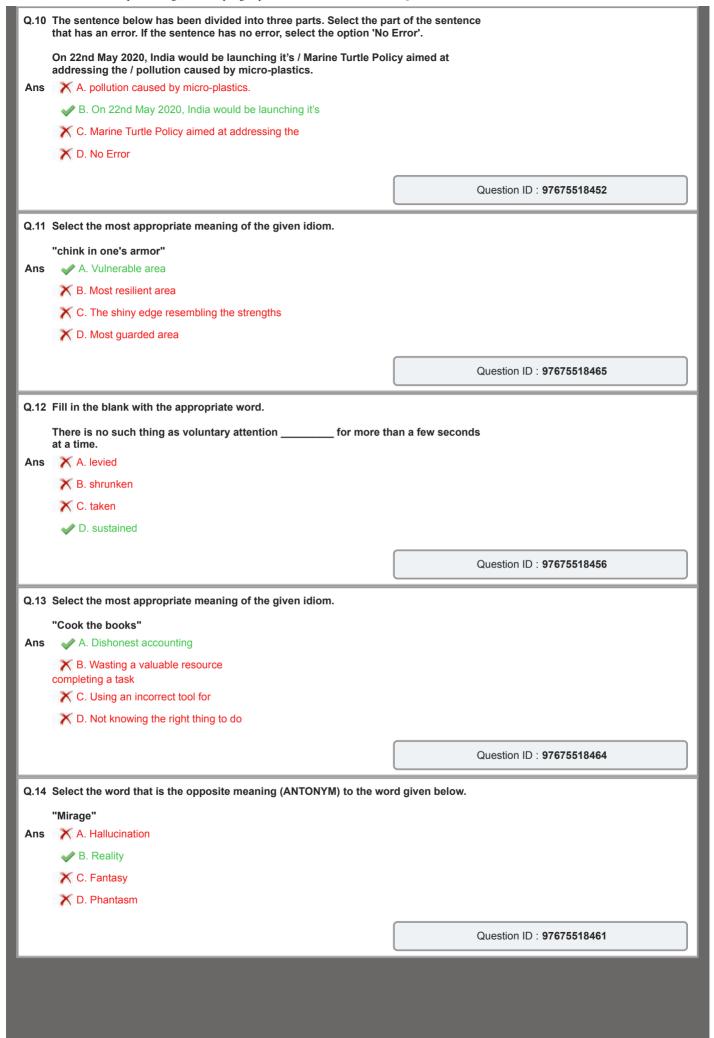
X D. 30%

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Q.20 What is the least perfect square that is a multiple of 7, 11 and 12? X A. 45000 X B. 9000 C. 853776 X D. 8100 Question ID: 97675518435



Q.5 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence. Although Amazon P: the first streaming service to produce an Oscar-winning movie Q: screenplay in 2016, it has adopted a more R: when Manchester by the Sea won best actor for Casey Affleck and best original S: beat Netflix to become low-key strategy. X A. PSQR X B. PQSR X C. SPQR D. SPRQ Question ID: 97675518459 Q.6 Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word. X A. GOURMEY Ans X B. GORMETT C. GOURMET X D. GORMETTE Question ID: 97675518462 Q.7 Select the word that is closest in meaning (SYNONYM) to the word given below. **CAISSON** Ans X A. Monarch B. Case X C. Ration X D. Raisins Question ID: 97675518460 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'. It must be compelled that during the first three decades / of the 19th century, the development of education / took place only through the traditional institutions. Ans X A. of the 19th century, the development of education B. It must be compelled that during the first three decades C. took place only through the traditional institutions. X D. No Error Question ID: 97675518453 Q.9 Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word. X A. KALEIDSCOPE Ans X C. KALAIDOSCOPE X D. KALAIDSCOPE Question ID: 97675518463



Q.15 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

#### Being the

P: it is important to look through samples of essays

Q: to get a clear picture of how to write one

R: and university students,

S: most important writing task for college on your own.

Ans

✓ A. SRPQ

X B. RSQP

X C. PSQR

X D. PSRQ

Question ID: 97675518458

#### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Every time we Google something, Facebook someone, Uber somewhere, or even just turn on a light, we create data that businesses collect and use to make decisions about us. In many ways this has improved our lives, yet, we as individuals do not benefit from this wealth of data as much as we could. Moreover, whether it is a bank evaluating our credit worthiness, an insurance company determining our risk level, or a potential employer deciding whether we get a job, it is likely that this data will be used against us rather than for us.

In Data for the People, Andreas Weigend draws on his years as a consultant for commerce, education, healthcare, travel and finance companies to outline how Big Data can work better for all of us. As of today, how much we benefit from Big Data depends on how closely the interests of big companies align with our own. Too often, outdated standards of control and privacy force us into unfair contracts with data companies, but it doesn't have to be this way. Weigend makes a powerful argument that we need to take control of how our data is used to actually make it work for us. Only then can we the people get back more from Big Data than we give it.

The success of data mining solutions tailored for e-commerce applications, as opposed to generic data mining systems, is an example. With more and more information accessible in electronic forms and available on the Web, and with increasingly powerful data mining tools being developed and put into use, there are increasing concerns that data mining may pose a threat to our privacy and data security. However, it is important to note that most of the major data mining applications do not even touch personal data. Prominent examples include applications involving natural resources, the prediction of floods and droughts, meteorology, astronomy, geography, geology, biology, and other scientific and engineering data.

SubQuestion No: 16

Q.16 Data mining is used for:

A. Shaping diamond mines to give a better yield

B. Making decisions about us

X C. To search the correct keyword on search engines on the internet

D. To turn on the light

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

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SubQuestion No: 17

Q.17 How can we utilise big data in a better fashion?

Ans

X A. Insurance companies should not be allowed to used mined data

X B. Everybody should be taught in detail big data and data mining

X C. Job employer should have all the data about his employee

D. We should be able to control how our data is used

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

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SubQuestion No: 18

Q.18 How has data mining improved our lives?

X A. Data mined from the user is cheaply sold in the market.

and give appropriate search results.

X C. Data mining requires more cookies which indeed makes the internet slower

X D. Data mining has barely had any impact on the society

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Every time we Google something, Facebook someone, Uber somewhere, or even just turn on a light, we create data that businesses collect and use to make decisions about us. In many ways this has improved our lives, yet, we as individuals do not benefit from this wealth of data as much as we could. Moreover, whether it is a bank evaluating our credit worthiness, an insurance company determining our risk level, or a potential employer deciding whether we get a job, it is likely that this data will be used against us rather than for us.

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SubQuestion No: 19

Q.19 In Data for the People, Andreas Weigend draws on his years as a consultant for:

X A. Commerce, education, manufacturing, travel and finance companies

X B. Science, education, healthcare, travel and finance companies

C. Commerce, education, healthcare, travel and finance companies

X D. Commerce, education, healthcare, production and finance companies

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Every time we Google something, Facebook someone, Uber somewhere, or even just turn on a light, we create data that businesses collect and use to make decisions about us. In many ways this has improved our lives, yet, we as individuals do not benefit from this wealth of data as much as we could. Moreover, whether it is a bank evaluating our credit worthiness, an insurance company determining our risk level, or a potential employer deciding whether we get a job, it is likely that this data will be used against us rather than for us.

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SubQuestion No: 20

Q.20 Why is data mining becoming a reason for concern?

X A. major data mining applications do not even touch personal data

X B. we as individuals do not benefit from this wealth of data as much as we could

X C. updated standards of control and privacy contracts with data companies

D. data mining may pose a threat to our privacy and data security.

Question ID: 97675518470

# Section : General Hindi Q.1 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विराम चिह्न युक्त वाक्य का सही विकल्प 🔭 🗙 A. अब क्या लेकर घर लौटू यह सोचकर वह बहुत ही दुखी हो गया | 💢 C. अब क्या लेकर घर लौटू, यह सोचकर, वह बहुत ही दुखी हो गया| 💢 D. अब क्या लेकर घर लौटू यह सोचकर वह बहुत ही दुखी हो गया Question ID: 97675518483

Q.2 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई लोकोक्ति का सही अर्थ वाला विकल्प है।

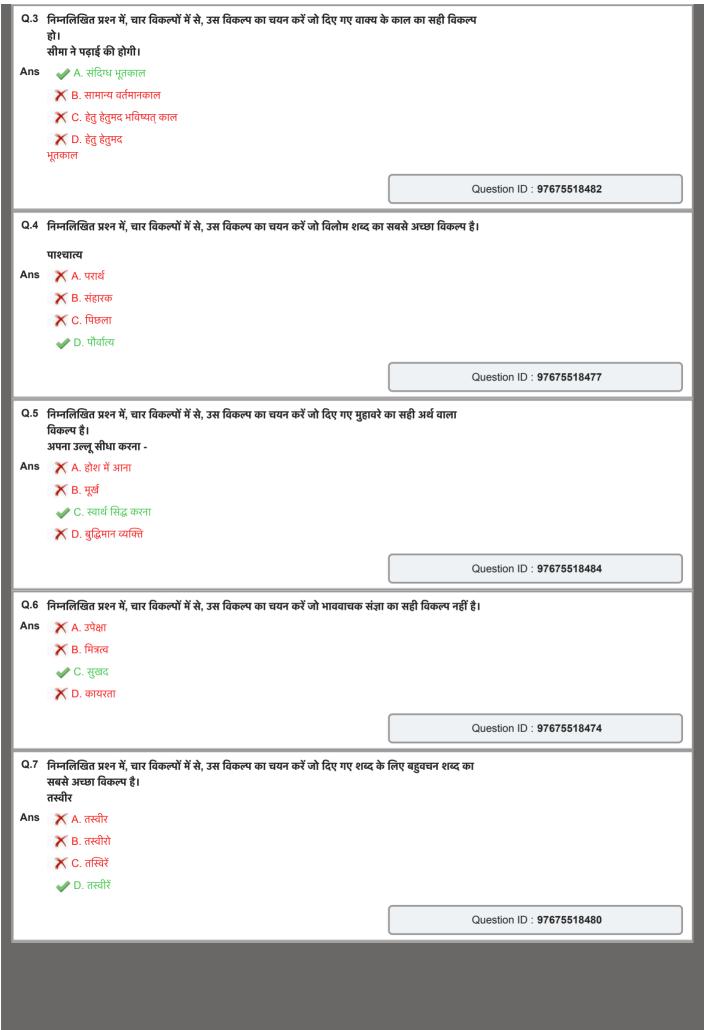
अंधे को अँधेरे में बड़े दूर की सूझी -

Ans 💢 A. मनचाही वस्तु मिल जाना

🥓 B. मूर्ख को बुद्धिमत्ता की बात सूझना

\chi C. बेसहारे का सहारा

X D. भलाई करने वाले का भला होना



121, 11.14 https://cui.digialin.com/pen/gov/pub/1256/fouchstone/Assessment() 1113/1256021556021556021556575D1715/105265440/		
विकल्प नहीं है।	िनम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए शब्द के पर्यायवाची शब्द का सही विकल्प नहीं है।	
धनुष		
<b>Ans</b>		
🗶 B. कोदंड		
🗶 C. कमान		
🗶 D. शरासन		
	Question ID : 97675518476	
	Question ID . 97073510470	
Q.9 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो शुद्ध शब्द का स	ड़ी विकल्प है।	
Ans 🔀 A. वीसमृति		
<b>৵</b> B. विस्मृति		
🗶 C. विस्मिती		
🗶 D. विस्मिति		
	0 11 12 22221	
	Question ID : 97675518479	
Q.10 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे	का सही अर्थ वाला	
विकल्प है।		
अथाह में पड़ना -		
Ans X A. फायदा होना		
🗙 B. बहुत मिलना		
✓ C. मुश्किल में पड़ना		
🗙 D. उपाय सोचना		
	Question ID : 97675518485	
Q.11 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो देशज शब्द का	मही विकल्प हो।	
Ans ✓ A. खुसुर-पुसुर		
<b>⋉</b> В. नोटिस		
🗶 C. गोभी		
🗡 D. बहादुर		
	Question ID : 97675518472	
Q.12 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विदेशी शब्द का	सही विकल्प हो।	
Ans 🕢 A. खामोश		
🗙 B. धक्का		
X C. घोटाला		
🗙 D. <u>ये</u> टी		
	Question ID : 97675518473	
Q.13 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो कोष्ठक में दिए प	ाए शब्द के अनुसार उत्तम	
पुरुष वाचक सर्वनाम का सबसे अच्छा विकल्प है।		
Ans X A. (तुम्हें) कुछ काम करना चाहिए।		
💓 B. बारिश में (हमारी) पुस्तकें भीग गई।		
🗙 C. (तुमसे) कुछ काम है।		
🔀 D. (उसे) कुछ मत कहना।		
l	Question ID : 97675518481	

Q.14	.14  निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो सर्वनाम के भेद का सही विकल्प हो। जैसा करोगे, वैसा भरोगे।		
Ans	🗙 A. अनिश्चय वाचक		
	<b>৵</b> B. सम्बन्ध वाचक		
	X C. निजयाचक		
	🗶 D. उत्तम पुरुष		
		Oversion ID - OTOTESANTE	
		Question ID : 97675518475	
Q.15	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो रिक्त स्थान का सही विकल्प है ।	के लिए उपयुक्त शब्द	
	भारतवासियों को दृष्टि से सोचना चाहिए।		
Ans	🗙 A. संकोच		
	🗶 B. निकृष्ट		
	✔ C. व्यापक		
	🗶 D. अचेतन		
		Ougation ID : 07675549.470	
		Question ID : 97675518478	
	Comprehension:  नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।  जीवन में बहुत अंधकार है और अंधकार की ही भाँति अशुभ और अनीति हैं। कुछ लोग इस अंधकार को स्वीकार कर लेते  हैं और तब उनके भीतर जो प्रकाश तक पहुँचने और पाने की आकांक्षा थी, वह क्रमशः क्षीण होती जाती हैं। मैं अंधकार की  इस स्वीकृति को मनुष्य का सबसे बड़ा पाप कहता हूँ। यह मनुष्य का सवरं अपने प्रति किया गया अपराध है। उसके दूसरों  के प्रति किए गए अपराधों का जन्म इस मूल पाप से ही होता है। यह स्मरण रहे कि जो व्यक्ति अपने ही प्रति इस पाप को  नहीं करता है, वह किसी के भी प्रति कोई पाप नहीं कर सकता है। किन्तु कुछ लोग अंधकार के स्वीकार से बचने के लिए  उसके अस्वीकार में लग जाते हैं। उनका जीवन अंधकार के निषेध का ही सतत उपक्रम बन जाता है।  SubQuestion No : 16  16 इस्छा शब्द में 'इक 'प्रत्यय जोड़ने से बनने वाला नया शब्द कौन-सा है?  ** A. इच्छिक  ** C. ईच्छिक  ** D. ऐच्छिक  Question ID : 97675518491		
Q.17 Ans	🗙 B. पाप की ओर		
	💢 C. अपराधों की ओर		

\chi D. गरीबी की ओर

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

जीवन में बहुत अंधकार है और अंधकार की ही भाँति अशुभ और अनीति है| कुछ लोग इस अंधकार को स्वीकार कर लेते हैं और तब उनके भीतर जो प्रकाश तक पहुँचने और पाने की आकांक्षा थी, वह क्रमशः क्षीण होती जाती है। मैं अंधकार की इस स्वीकृति को मनुष्य का सबसे बड़ा पाप कहता हूँ। यह मनुष्य का स्वयं अपने प्रति किया गया अपराध है। उसके दूसरों के प्रति किए गए अपराधों का जन्म इस मूल पाप से ही होता है| यह स्मरण रहे कि जो व्यक्ति अपने ही प्रति इस पाप को नहीं करता है, वह किसी के भी प्रति कोई पाप नहीं कर सकता है| किन्तु कुछ लोग अंधकार के स्वीकार से बचने के लिए उसके अस्वीकार में लग जाते हैं। उनका जीवन अंधकार के निषेध का ही सतत उपक्रम बन जाता है।

#### SubQuestion No: 18

# Q.18 इस गद्यांश का मुख्य उद्देश्य क्या है?

Ans 🔀 A. तरह-तरह के लोगों की विशेषताएँ बताना

\chi B. पाप और पुण्य की व्याख्या करना

 ✓ C. अन्याय और बुराइयों को दूर करने के लिए प्रेरित करना

🟋 D. अन्धकार और प्रकाश का पक्ष लेना

Question ID: 97675518490

#### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

जीवन में बहुत अंधकार है और अंधकार की ही भाँति अशुभ और अनीति है| कुछ लोग इस अंधकार को स्वीकार कर लेते हैं और तब उनके भीतर जो प्रकाश तक पहुँचने और पाने की आकांक्षा थी, वह क्रमशः क्षीण होती जाती है। मैं अंधकार की इस स्वीकृति को मनुष्य का सबसे बड़ा पाप कहता हूँ। यह मनुष्य का स्वयं अपने प्रति किया गया अपराध है। उसके दूसरों के प्रति किए गए अपराधों का जन्म इस मूल पाप से ही होता है| यह स्मरण रहे कि जो व्यक्ति अपने ही प्रति इस पाप को नहीं करता है, वह किसी के भी प्रति कोई पाप नहीं कर सकता है| किन्तु कुछ लोग अंधकार के स्वीकार से बचने के लिए उसके अस्वीकार में लग जाते हैं। उनका जीवन अंधकार के निषेध का ही सतत उपक्रम बन जाता है।

# SubQuestion No: 19

### Q.19 लेखक ने किसे सबसे बड़ा पाप कहा है?

📉 🗙 A. प्रकाश पाने की क्षीण आकांक्षा

🟋 B. मनुष्य का अपने प्रति पाप न करना

✓ C. अन्धकार को स्वीकार कर लेना

\chi D. अंधकार को स्वीकार न करना

Question ID: 97675518489

### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

जीवन में बहुत अंधकार है और अंधकार की ही भाँति अशुभ और अनीति है| कुछ लोग इस अंधकार को स्वीकार कर लेते हैं और तब उनके भीतर जो प्रकाश तक पहुँचने और पाने की आकांक्षा थी, वह क्रमशः क्षीण होती जाती है| मैं अंधकार की इस स्वीकृति को मनुष्य का सबसे बड़ा पाप कहता हूँ। यह मनुष्य का स्वयं अपने प्रति किया गया अपराध है। उसके दूसरों के प्रति किए गए अपराधों का जन्म इस मूल पाप से ही होता है| यह स्मरण रहे कि जो व्यक्ति अपने ही प्रति इस पाप को नहीं करता है, वह किसी के भी प्रति कोई पाप नहीं कर सकता है| किन्तु कुछ लोग अंधकार के स्वीकार से बचने के लिए उसके अस्वीकार में लग जाते हैं। उनका जीवन अंधकार के निषेध का ही सतत उपक्रम बन जाता है।

#### SubQuestion No: 20

# Q.20 इस अनुच्छेद का कोई उपयुक्त शीर्षक-

🟋 B. मनुष्य की सोच

\chi C. अंधकार का महत्त्व

🟋 D. पाप और पुण्य

#### Section : Discipline1

Q.1 In a double riveted double covered butt joint, the strength of the joint per pitch length in shearing the rivets P4 and strength of one rivet in single shear P, are related as;

- $\times$  A.  $P_d = 2.5 P_s$
- $\times$  B.  $P_d = 3 P_s$
- $\times$  c.  $P_d = 2 P_s$
- $\checkmark$  D.  $P_d = 4 P_s$

Question ID: 97675518503

- Q.2 The characteristics of air pollution control mechanism is given below.
  - 1. Uses electrical forces to move the particles out of the flowing gas stream onto collector plates.
  - 2. The particles are removed from the plate by rapping and collected in a hopper below the unit. Identify the control mechanism.

Ans

- ✓ A. Electrostatic Precipitators
- X B. Venturi scrubbers
- X c. Settling chambers
- X D. Cyclones

Question ID: 97675518510

A steel rod of 20 mm diameter is used as a tie member in the roof bracing system and may be subjected to possible reversal of stress due to wind load. What is the maximum permissible length of the member?

- X A. 2250 mm
- X B. 2000 mm
- ✓ C. 1750 mm
- X D. 3000 mm

Question ID: 97675518504

A body submerged in liquid is in equilibrium when:

- X A. Its meta centre is above the centre of buoyancy
- X B. Its centre of gravity is above the centre of buoyancy
- X c. Its meta centre is above the centre of gravity
- ✓ D. Its centre of buoyancy is above the centre gravity

Question ID: 97675518501

A reinforced concrete beam is subjected to the following bending moments Q.5 Moment due to Dead load = 60 kNm; Moment due to live load = 90 kNm; Moment due to Seismic load = 30 kNm. The design bending moment for limit state of collapse is:

Ans

- ✓ A. 225 kNm
- X B. 216 kNm
- X C. 180 kNm
- X D. 135 kNm

The recommended values of compressive strength (CS) and water absorption (WA) for heavy duty burnt clay bricks of class 400 as per IS 2180 are respectively;

Ans

- $\times$  A. CS = 45 to 50 N/mm<sup>2</sup>; WA < 20 %
- $\times$  B. CS = 35 to 40 N/mm<sup>2</sup>; WA  $\leq$  15 %
- $\times$  C. CS = 30 to 40 N/mm<sup>2</sup>; WA < 12 %
- ✓ D. CS = 40 to 45 N/mm<sup>2</sup>; WA < 10 %

Question ID: 97675518512

The maximum spacing of shear reinforcement (as vertical stirrups) measured along the axis of a reinforced concrete Q.7 beam of width 300 mm and effective depth 500 mm, with a span 6 m is:

Ans

- X A. 300 mm
- X B. 375 mm
- ✓ C. 200 mm
- X D. 337.5 mm

Question ID: 97675518496

A closed cylindrical tank of height 2 m is partly filled with oil of relative density 0.8 to a depth of 1m, is subjected to an air pressure of 20kN/m<sup>2</sup>above the oil. Determine the total pressure (in kN/m<sup>2</sup>units) at the bottom of the tank. Take unit weight of water as 10000 N/m2

Ans

- X A. 12
  - X B. 20
- ✓ C. 28
- X D. 20.8

Question ID: 97675518499

Q.9 In plate girders intermediate vertical stiffeners are provided to safeguard:

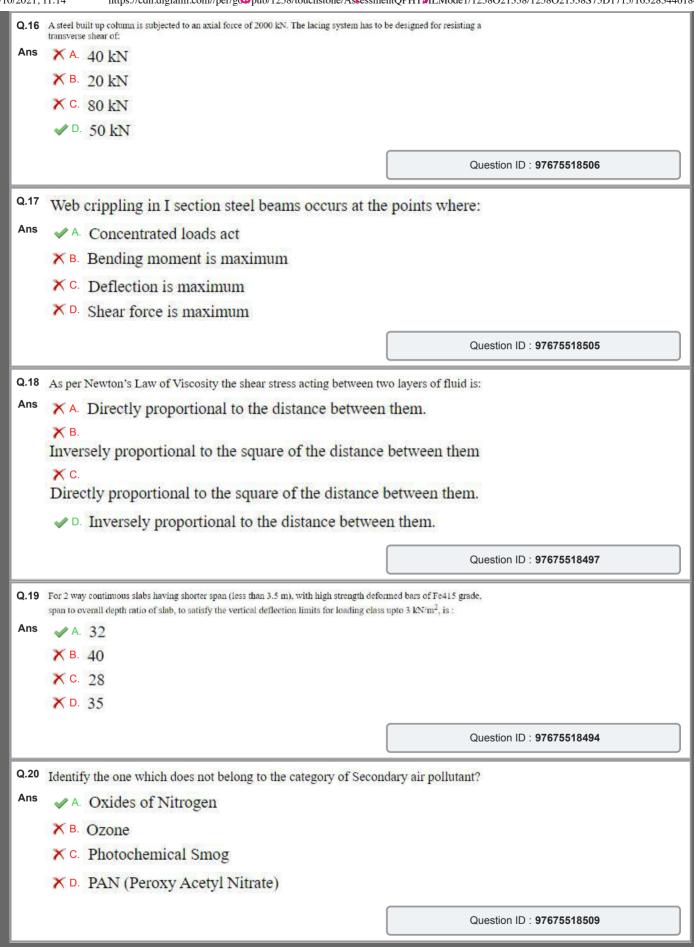
- X A. Increase self-weight of plate girder
- ✓ B. Web against Shear buckling stress
- X c. Transfer concentrated loads on girder to the web
- ➤ D. Web against Bending bucking stress

Question ID: 97675518507

Q.10 In dealing with the problem of air pollution, gravitational settling chambers are generally used to remove large, abrasive

Ans

- X A. Stack
- B. Gas Streams
- X C. Stack & Ambient Air
- X D. Ambient Air



Q.1 For a trapezoidal channel of specified side slope, the most economical cross-section for conveying the maximum discharge through the channel section is given by the condition:

- Ans X A. Top width must be equal to one of the sloping side of channel
  - X B. Hydraulic radius must be equal to the depth of Flow
  - X C. Twice the Top width must be equal to one of the sloping side of channel
  - D. Hydraulic radius must be equal to half the depth of Flow

Question ID: 97675518531

Q.2 The addition of 50 decibel noise with another 50 decibel noise is equivalent to a noise

Ans

- A. 53 decibel
- X B. 73 decibel
- X C. 100 decibel
- X D. 83 decibel

Question ID: 97675518532

- Two statements S1, S2 pertaining to clay soils are given. Q.3
  - S1: The in situ moisture content for a sensitive clay may be greater than the liquid limit, and the liquidity index is
  - S2: In many naturally deposited clay soils, the unconfined compressive strength for undisturbed clay is less than the remolded clay, at the same moisture content

Choose the correct answer.

Ans

- X A. Both S1 and S2 are True
- XB. S1 is False and S2 is True.
- C. S1 is True, and S2 is False
- X D. Both S1 and S2 are False

Question ID: 97675518521

A father notes that when his teenage daughter uses the telephone, she takes not less than 6 minutes for a call and some Q.4 times as much as 1 hour. Calls of duration 15 minutes are most frequent than calls of any other duration. If the daughters call were an activity in a PERT project, estimate the call's expected duration?

- Ans X A. 15 minute
  - X B. 16 minute
  - ✓ C. 21 minute
  - X D. 13.5 minute

Question ID: 97675518517

Q.5 A rigid isolated footing is resting on Clay. The contact pressure at the edges and centre of the footing are respectively:

Ans

- ✓ A. Maximum and minimum
- X B. Minimum and maximm
- X c. Zero and maximum
- X D. Maximum and zero

Section : Discipline3

In the Plane Table Surveying, Bessel's Graphical method is adopted for the solution of: X A. Two-point problem X B. Traversing problem ✓ C. Three-point problem X D. Graphic triangulation Question ID: 97675518549 A triangular Direct hydrograph due to a 6 hour storm in a catchment has a time base of 100 hour and a peak flow 40  $m^3/s$ . The catchment area is  $360 \text{ km}^2$ . The 6-hour unit hydrograph of this catchment will have a peak flow  $(m^3/s)$  of: Ans X A. 30 X C. 6.67 X D. 10 Question ID: 97675518533 Q.3 Three pipes having diameter  $d_1$ ,  $d_2$  and  $d_3$  ( $d_1 \ge d_2 \ge d_3$ ) are connected in series. Identify the correct option pertaining to the flow through the pipes. Ans X A. Reynolds number of flow for each pipe is the same. B. Discharge through each pipe is the same. X c. Head loss in each pipe is the same Total discharge is the sum of the discharge in the individual pipes Question ID: 97675518537 If the moisture content in a soil is at the field capacity of soil, the ratio of Actual Evapotranspiration (AET) to the Potential Evapotranspiration (PET) is: Ans X A. Less than 1 X B. Equal to 0.5 C. Equal to 1 X D. More than 1 Question ID: 97675518543 The Hydrologic flood routing methods employ the equations of: X A. Energy Equation only X B. Both momentum and continuity equations C. Equation of Continuity only X D. Equation of motion only Question ID: 97675518534

Ans X A. Weber number

X B. Strouhal number

C. Reynold's number

X D. Froude number

In which year 'Motor Vehicle Act' was adopted in India X A. 1947 X B. 1940 X C. 1938 ✓ D. 1939 Question ID: 97675518551 An irrigation canal that is aligned nearly parallel to the contours of the area, can irrigate area only on one side of canal, and generally constructed as a single bank canal is known as: X A. Detour canal X B. Ridge Canal X c. Side slope canal ✓ D. Contour Canal Question ID: 97675518544 Q.18 A streamlined body is one for which: Ans The separation point occurs on the far downstream part of the body X B. The thickness of the body is minimum X C. The skin friction is zero X D. The skin friction is minimum Question ID: 97675518539 Q.19 The graphical plot of the intensity of rainfall against the time interval for a basin is known as: X A. Hydrograph ✓ B. Hyetograph X C. Mass curve of rainfall X D. Unit Hydrograph

Question ID: 97675518536

Q.20 Contour lines of different elevations can unite to form one line in case of:

Ans X A. A cave

X B. An overhanging cliff

X C. A hill

✓ D. Vertical cliff

Question ID: 97675518547

Section : Discipline4

The sum of all the forces acting on a body is Zero. The inference that can be deduced from it is:

Ans

The body may be in equilibrium provided the forces are parallel.

The body may be in equilibrium provided the forces are concurrent.

- X c. The body cannot be in equilibrium.
- X D. The body must be in equilibrium.

Question ID: 97675518568

A solid cylinder, solid sphere, and a hoop, each of radius R and mass m are released simultaneously from rest on an incline at the same elevation. The order in which they will pass through a common mark at the same level is: Q.2

Ans

- X A. Cylinder, hoop, sphere
- X B. Hoop, Cylinder, Sphere
- ✓ C. Sphere, Cylinder, Hoop
- X D. Cylinder, Sphere, Hoop

Question ID: 97675518572

- Under which part of the Planning Survey of Highways, "Road Life Studies" is included.
- X A Financial Studies
  - X B. Economic Studies
  - X C. Traffic use Studies
  - ✓ D. Engineering Studies

Question ID: 97675518553

- Name the test on Aggregate, to determine the resistance of aggregates to weathering action:
- X A. Abrasion Test
- X B. Bitumen adhesion Test
- C. Soundness Test
- X D. Crushing Test

Question ID: 97675518562

- Q.5 Identify the factor which is not taken into account for computing the breaking distance in highways.
- A. Reaction time of Driver
- X B. Gradient
- X C. Speed of Vehicle
- X D. Co-efficient of longitudinal friction

Q.6 Identify the test that is not commonly adopted for evaluating the strength properties of subgrade soil in pavements: X A. California bearing Test (CBR) X B. Plate bearing Test X c. Dynamic Cone penetration (DCP) Test ✓ D. Pressuremeter test (PMT) Question ID: 97675518563 Q.7 The following 2 statements (S1 and S2) pertain to design of flexible pavements: S1: Most flexible pavement design procedures are based on Benkelman beam deflection measurements S2: Elastic deflection is a practical non-destructive measure of pavement stiffness which relates well to fatigue failure. Ans ✓ A. S1 is False and S2 is True **X** B. Both S1 and S2 are True and S2 is the correct explanation of S1. Both S1 and S2 are True and S2 is not a correct explanation of S1 X D. S1 is true and S2 is False Question ID: 97675518567 Q.8 Which of the following is not the purpose of "Origin & Destination Studies" in Traffic Engineering? Ans To judge the adequacy of existing routes and to plan new network of roads. To establish preferential routes for various categories of vehicle including bypass. X C. To locate terminals and to plan terminal facilities. To study the causes of accidents and to suggest corrective treatment at potential locations. Question ID: 97675518556 The maximum super elevation to be provided on a road curve is 1 in 10. If the rate of change of super elevation is specified as 1 in 100 and the road width is 10 m, the minimum length of transition to be provided on either end of circular curve is: Ans X A. 50 m X B. 75 m X C. 125 m ✓ D. 100 m Question ID: 97675518555 Which of the following is not correctly matched? X A. Bituminous mix design: Marshall method ✓ B. Float test : Water Content in bitumen X C. Penetration test: Hardness or softness of bitumen X D. Los Angeles Test: Hardness of aggregates Question ID: 97675518564

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Q.16 Which type of traffic survey details are plotted by desire lines?
      X A. Speed and delay
      X B. Classified volume
      C. Origin and destination
      X D. Accidents
                                                                                     Question ID: 97675518558
Q.17 Given the following parameters for a concrete pavement:
       r - radius of load distribution, P - wheel load, h - thickness of slab, μ - Poisson's ratio of concrete, E - modulus of
                            elasticity of concrete, K - modulus of subgrade reaction.
     The combination of parameters required for estimating the Radius of relative stiffness of concrete slab is:
Ans
      X A. P, h, K, µ

✓ B. E, h, K, µ

      X c. h, K, u, r
      × D. E, K, μ, r
                                                                                     Question ID: 97675518565
Q.18 Identify the traffic signs which do not come under the category of a Regulatory Sign.
      X A. Prohibitory signs

★ B. Stop and give-way signs

      X C. No Parking & No Stopping Signs

✓ D. Warning signs

                                                                                     Question ID: 97675518557
Q.19 The point of contraflexure in a loaded beam subjected to bending action is one where:
      X A. The shear force changes sign
      X B. The bending moment is maximum
      X C. The shear force is maximum

✓ D. The bending moment changes sign

                                                                                     Question ID: 97675518570
Q.20
     The recommended maximum spacing of contraction joints in 15 cm thick reinforced slabs of rigid pavements, for
     highways as per IRC 15: 1981 is .
Ans
      ✓ A. 13 m
      X B. 12 m
      X C. 10 m
      X D. 14 m
                                                                                     Question ID: 97675518566
```

Section : Discipline5

Q.1	A water sample contains 10 <sup>-9</sup> ml/litre of OH <sup>-</sup> ions at 25 °C. The pH	of this sample is :	
Ans			
	X B. 2		
	X C. 9		
	<b>少</b> D. 5		
		0 11 12 222222	
		Question ID : 97675518582	
Q.2	In which method of forecasting population, the percentage increase in population from decade constant.	de to decade is assumed to	
Ans	✓ A. Geometrical increase method		
	X B. Incremental increase method		
	★ c. Logistic Curve method		
	X D. Arithmetical increase method		
		0 11 12 22222	
		Question ID : 97675518579	
Q.3	In sewerage system drop manholes are provided wi	nen there is a:	
Ans	<b>✓</b> A.		
	Sloping ground, with drop more than 0.6 m is required to cor	ttrol the gradient.	
	✗ B. Change in alignment of sewer line		
	★ c. Change in size of sewers		
	★ D. Change from gravity system to pressure system  **To pressure system to pressure system.  **To pressure system to pressure system.  **To pressure system to pressure system.  **To pressure system.	m	
		Question ID : 97675518583	
Q.4	The major constituent gases produced from a land	fill site are:	
Ans	➤ A. Hydrogen sulphide and oxygen		
	✗ B. Carbon monoxide and nitrogen		
	★ c. Ammonia and Hydrogen		
	✓ D. Carbon dioxide and methane		
		Ougstion ID : <b>97675518591</b>	
		Question ID : 97675518591	
Q.5	The anaerobic fermentation of biodegradable matter in an enclosed space under controlled compositure, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebe comprising of methane and carbon dioxide, and also digested sludge. Which of the following	onditions of temperature,	
Q.5 Ans	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, thereb	onditions of temperature,	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, thereb comprising of methane and carbon dioxide, and also digested sludge. Which of the following	onditions of temperature,	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested sludge. Which of the following  A Biomethanation	onditions of temperature,	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested sludge. Which of the following  A. Biomethanation  B. Incineration	onditions of temperature,	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested studge. Which of the following  A Biomethanation  B. Incineration  C. Plasma Pyrolysis Vitrification	onditions of temperature, y generating biogas options is described here?	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested studge. Which of the following  A Biomethanation  B. Incineration  C. Plasma Pyrolysis Vitrification	onditions of temperature,	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested studge. Which of the following  A Biomethanation  B. Incineration  C. Plasma Pyrolysis Vitrification	onditions of temperature, y generating biogas options is described here?	
	moisture, pH, etc. The waste mass undergoes decomposition due to microbial activity, therebecomprising of methane and carbon dioxide, and also digested studge. Which of the following  A Biomethanation  B. Incineration  C. Plasma Pyrolysis Vitrification	onditions of temperature, y generating biogas options is described here?	

Q.6 Which is the least preferred strategy of Integrated Solid waste Management according to their Environmental benefits?

Ans

- ✓ A. Land fills
- X B. Composting
- × c. Waste to Energy
- X D. Recycling

Question ID: 97675518590

A bar of length L and cross-section area A is subjected to a gradually applied load P. Another bar of the same material, having the same length L, and cross section area 2A is also subjected to a gradually applied load Q. If the strain energy Q.7

stored in the two bars are the same, then the ratio  $\frac{P}{2}$  is:

Ans

- X B. √2
- X D. 2

Question ID: 97675518574

- Q.8 The following statements S1 and S2 pertain to water treatment scheme.
  - S1: The efficiency of sedimentation process, depends on the difference of specific gravities of the particle and the
  - medium.

    S2 : Disinfection being the last process in the treatment scheme, is not affected by poor coagulation and flocculation.
- Choose the correct answer.

Ans

- A S1 is True and S2 is False
- X B. S1 is False and S2 is True
- X C. Both S1 and S2 are False
- X D. Both S1 and S2 are True

Question ID: 97675518581

Q.9 The features of anaerobic digestion of sewage are given. Identify the incorrect one.

Ans

- X A. Reduces odour/ flies problem.

Reduction in volume of sludge and improving the dewatering characteristics of the sludge, makes it easy to dry.

C. High operating cost,

Reduce production of landfill greenhouse gases when otherwise these untreated sludge is disposed on landfill

X A. Force method

B. Displacement method

X C. Flexibility matrix method

X D. Compatibility Method

Question ID: 97675518578

What is the ILD (Influence Line Diagram) of a three hinged Arch of Span 'L' and rise 'h' due to horizontal thrust 'H'

Q.15 The analysis of a Kinematically Indeterminate Structure by Stiffness Matrix method is also known as:

- $\times$  A Triangle with its maximum ordinate at center equals to  $\frac{L}{24h}$
- $\times$  B. Square with its ordinate equals to  $\frac{L}{2}$
- $\times$  C. Square with its ordinate equals to  $\frac{L}{2h}$
- $\checkmark$  D. Triangle with its maximum ordinate at center equals to  $\frac{L}{4h}$

Question ID: 97675518577

What is the Mass Moment of Inertia of a Metallic Circular Plate of uniform thickness 't', radius 'R' and mass density 'p', about an axis passing through its planar surface.

Ans

- ✓ A. 0.25 t ρπ R<sup>4</sup>
- × B. 0.5 t ρ π R<sup>2</sup>
- $\times$  C. 0.25 t  $\rho \pi R^3$
- $\times$  D. 0.25 to  $\pi$  R<sup>2</sup>

Question ID: 97675518575

- Q.18 The following statements S1 and S2 pertain to two procedures for disposal of Municipal solid Waste
  - S1: Gasification is the conversion of waste and biomass into liquid and gaseous fuel as well as solid residues and char at 500 C-1000 C in absence of air
  - S2: Pyrolysis is a partial combustion of organic or fossil based carbonaceous material, plastics, etc. into carbon monoxide, hydrogen, carbon dioxide, and methane, at a temperature of 650°C, with controlled amount of air/oxygen

Identify the correct answer.

- X A. S1 is False and S2 is True
  - ✓ B. Both S1 and S2 are False
- X C. Both S1 and S2 are True
- X D. S1 is True and S2 is False

Question ID: 97675518588

Which of the following Rules / policies / Schemes is not Initiated by the Govt. of India in the year 2008

Ans

- ✓ A. Plastic waste Rules
- X B. National Urban sanitation policy
- X C. National Mission on Sustainable Habitat
- X D. Hazardous waste Rules

Q.20 In the aerobic composting process, when the C/N (Carbon to Nitrogen) ratio of Municipal solid Waste is less than 25:1, identify the material which is added to it to increase the C/N value, to avoid the production of foul smell. Ans X A. Slaughter House Waste X B. Non-edible oil cakes X C. Green biomass ✓ D. Saw dust Question ID: 97675518587

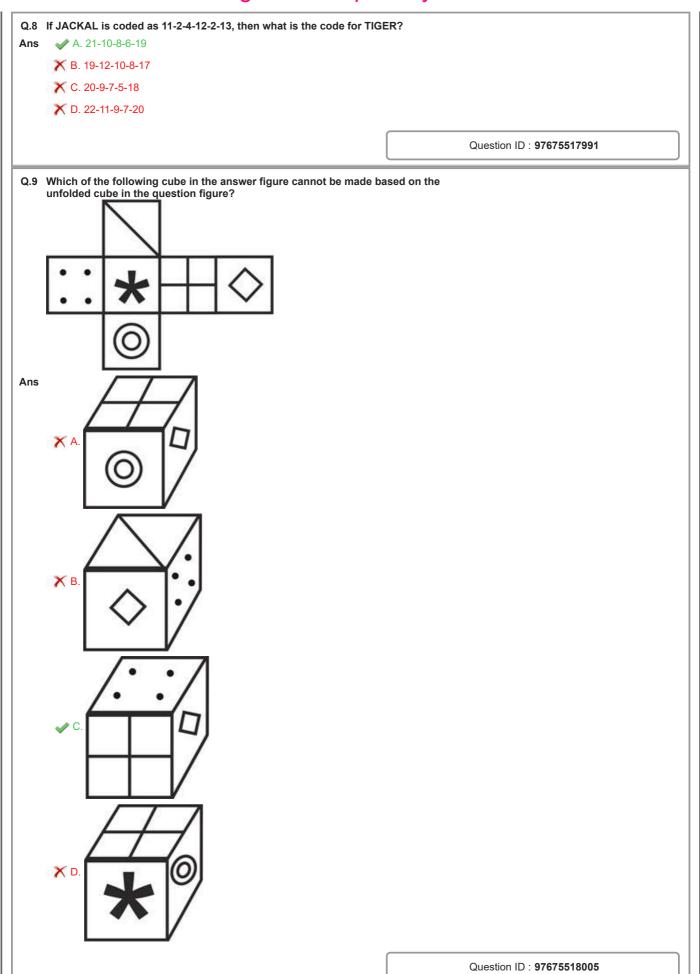


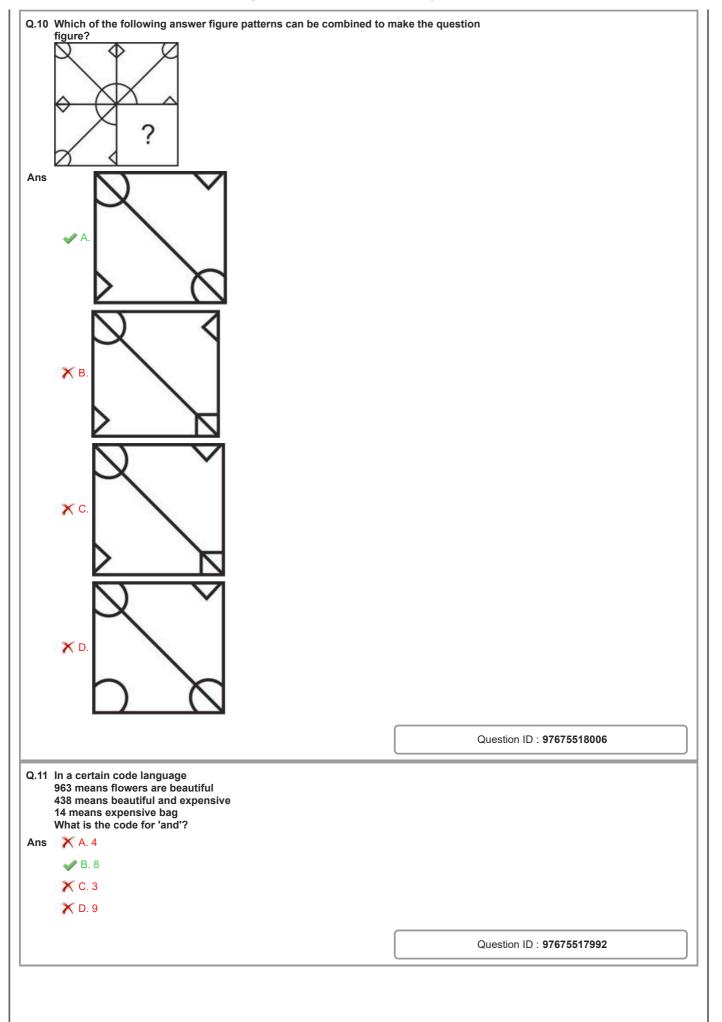
# GOVT. OF NCT OF DELHI Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi – 110092. www.dsssb.delhigovt.nic.in

TTest Date	27/09/2021
Test Time	12:30 PM - 2:30 PM
Subject	Assistant Engineer (Civil)

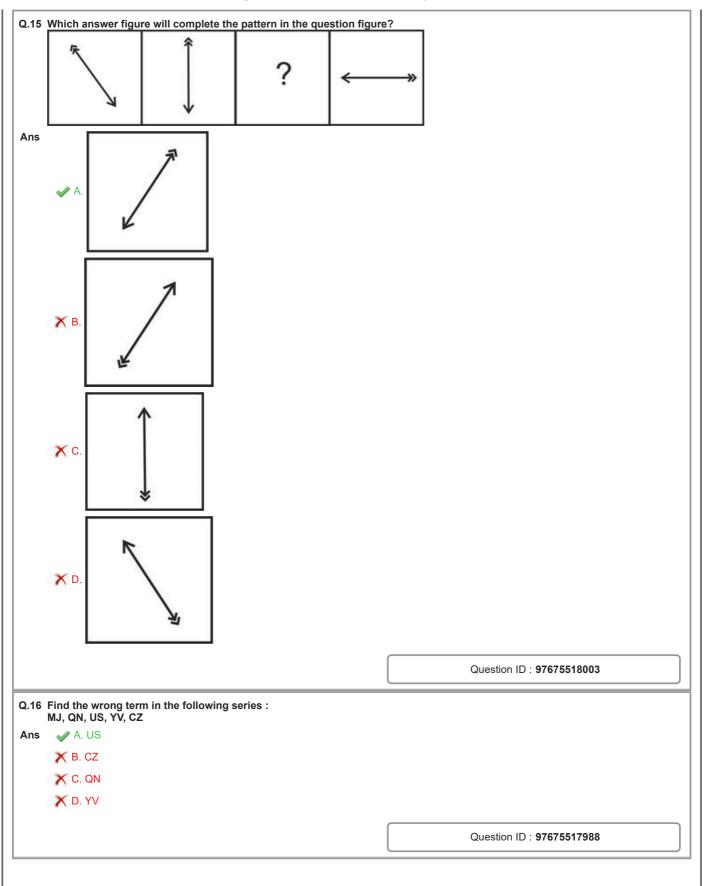
Section : General Ability			
Q.1	1 Which two signs should be interchanged to make the below equation mathematically correct? 16 × 2 + 5 - 18 ÷ 3 = 33		
Ans			
	<b>X</b> B. ×, −		
	<b>✓</b> C. +, -		
	X D. +, ÷		
			Question ID : 97675517998
Q.2	Complete the following number series: 128, 115, 103, 92,		
Ans	<b>✓</b> A. 82		
	<b>X</b> B. 72		
	X C. 75		
	X D. 68		
			Ougstion ID : 07675547000
			Question ID : 97675517999
Q.3	.3 If P \$ Q means P is the brother of Q; P ! Q means P is the mother Q and P * Q means P is the son of Q, which of the following shows that W is brother of Z?		
Ans	X A. W * X \$ Y ! Z		
	✓ B. W * X!Y\$Z		
	<b>X</b> C. W!X*Y\$Z		
	X D. W!X\$Y*Z		
			Question ID : 97675517993
Q.4	Naina, Preksha, Yash, Uma, Esha and Gauri are sitting around a r centre. Preksha is between Uma and Yash, Gauri is between Nain is to the left of Naina. Who is to the left of Esha?		
Ans	✓ A. Naina		
	X B. Gauri		
	X C. Uma		
	X D. Esha		
			Ougation ID + 07675547005
			Question ID : 97675517995

Q.5	Shubham jogs 3 km west, he then turns 45° to his left and jogs 2 km, he then turns 90° to his left and jogs 3 km, he then turns 180° to his right. Which direction is he facing now?
Ans	X A. north-east
	✓ B. north-west
	X C. south-west
	X D. south-east
	Question ID : 97675518002
Q.6	Aman walks 0.4 km east, then turns south and walks 0.3 km, then turns east and walks 0.7 km, then turns south and walks 0.5 km, and turns to its right and walks 0.11 km. Where is he now with reference to his starting position?
Ans	✓ A. 0.8 km south
	X B. 0.2 km north
	C. 0.2 km south
	X D. 0.8 km north
	Question ID : 97675518001
Q.7	Select the option that is related to the third image on the same basis as the second
	image is related to the first image.
Ano	
Ans	✓ A.
	<b>★</b> B.
	<b>★</b> c.
	<b>★</b> D.
	Question ID : 97675518004

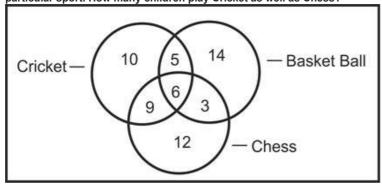




Ans	6Q9,, 20Y23, 27C30  ✓ A. 13U16	
A113	X B. 12S15	
	X C. 13S17	
	X D. 10T12	
		Question ID : 97675517987
Q.13	If Seema is taller than Yash; Aisha is taller than who is the tallest among all?	Seema; and Yash is taller than Wasim,
Ans	X A. Seema	
	X B. Yash	
	✓ C. Aisha	
	X D. Wasim	
		Question ID : <b>97675517994</b>
Q.14	Select the pair that is related on the same basis Needle: Tailor::?	to the pair given in the question.
Ans	X A. Wood : Carpenter	
	X B. Leather : Cobbler	
	C. School : Teacher	
	X C. School : Teacher	



Q.17 The given Venn diagram shows the number of children in a complex who play a particular sport. How many children play Cricket as well as Chess?



Ans X A. 18

X B. 31

√ C. 15

X D. 27

Question ID: 97675518000

Q.18 In the question one statement is given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement: 55% of Manisha's office colleagues went to watch the movie.

Conclusion I: Manisha went to watch the movie.

Conclusion II: Manisha did not go to watch the movie.

Ans X A. Only conclusion I follows

X B. Only conclusion II follows

X C. Both I and II follow

D. Either I or II follows

Question ID: 97675517997

Q.19 Select the option that is related to the third term on the same basis as the second term is related to the first term.

HPT: EMQ:: RUD:?

Ans X A. MSC

X C. PND

X D. MTC

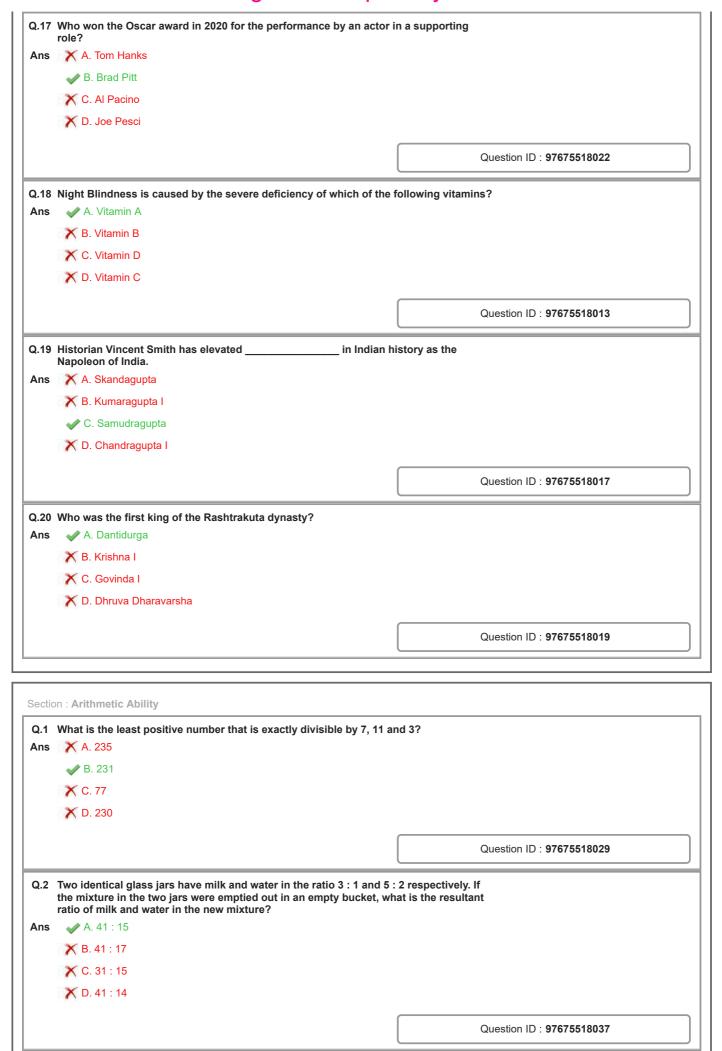
Q.20 In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any,

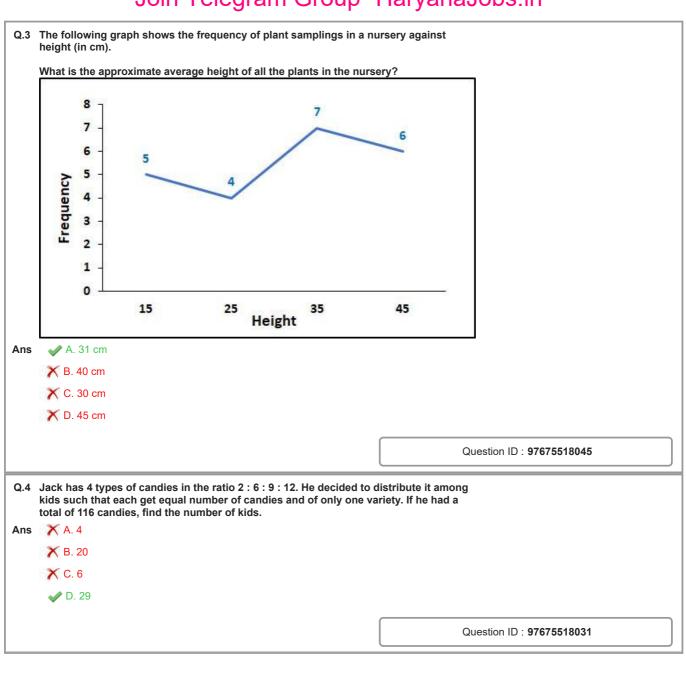
follows from the given statements.

	Statement 1 : All schools are books. Statement 2 : No books are papers.	
	Conclusion I : No schools are books.	
	Conclusion II: Some books are schools.	
Ans	X A. Only conclusion I follows	
	X B. Both I and II follow	
	C. Only conclusion II follows	
	D. Neither I nor II follows	
		Question ID : 97675517996
Section	on : General Awareness	
Q.1	Which among the following banks merged with the Indian Bank with 2020?	effect from April
Ans	X A. Canara Bank	
	X B. Andhra Bank	
	C. Punjab National Bank	
	✓ D. Allahabad Bank	
		Out at an ID : 07075540000
		Question ID : 97675518009
Q.2	The Kamet is the highest summit in the mountain range.	
Ans	X A. Aravalli	
	X B. Western Ghats	
	✓ C. Zaskar	
	X D. Eastern Ghats	
		Question ID : 97675518015
		Question ID . 97073310013
Q.3	Which among the following instruments is used to measure the wind	d force?
Ans	X A. Hygrometer	
	B. Galvanometer	
	C. Altimeter	
	✓ D. Anemometer	
		Question ID : 97675518011
Q.4	As announced in the Budget 2021, Indian Railways have prepared a for India. The plan is to create a 'future ready' Railway system by	
Ans	X A. 2028	
	<b>✓</b> B. 2030	
	X C. 2026	
	X D. 2025	
		Ougation ID : 0707FF40040
		Question ID : 97675518010

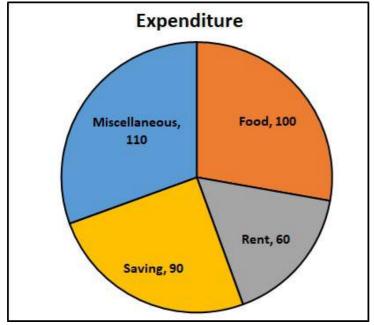
	Who is the director general of World Health Organisation as of Febr	uary 2021?
Ans	X A. Margaret Chan	
	X B. Roberto Azevedo	
	C. Christine Lagarde	
	✓ D. Tedros Adhanom Ghebreyesus	
		Question ID : 97675518020
	When was the Battle of Talikota fought?	
Ans	X A. 1558	
	X B. 1535	
	<b>✓</b> C. 1565	
	X D. 1532	
		Question ID : 97675518018
		Question ID . 37070010010
Q.7	The members of chlorophyceae are commonly called alga-	ne.
Ans	✓ A. green	
	X B. red	
	C. blue	
	X D. brown	
		Ougation ID : 07675540042
		Question ID : 97675518012
Q.8	How many forms of Shakti are worshipped during Navaratri?	
Ans	X A. 7	
	<b>✓</b> B. 9	
	X C. 10	
	<b>X</b> D. 8	
		0 10
		Question ID : 97675518007
Q.9	Who has the record of the most wickets in career in One Day International February 2021?	ationals as of
Ans	X A. Wasim Akram	
	✓ B. Muttiah Muralitharan	
	C. Shahid Afridi	
	X D. Waqar Younis	
		Question ID : 97675518025
Q.10	The ancient name of the river is Vitasta.	
Ans	X A. Beas	
	✓ B. Jhelum	
	C. Chenab	
	X D. Ganga	
		Question ID : 97675518014

Q.11 will be hosting the International Olympic Committee's (I 2023.	OO) Session in
Ans X A. Chennai	
✓ B. Mumbai	
X C. Kolkata	
X D. New Delhi	
	Question ID: 97675518026
	Question ID . 3/6/3310020
Q.12 Pavri Nach is performed by the Kokna tribe of which of the following	g states?
Ans 💞 A. Maharashtra	
X B. Odisha	
C. Madhya Pradesh	
D. Tamil Nadu	
	Question ID: 97675518008
	Question ib . 37073310000
Q.13 In which year 'Atal Pension Yojana' was launched?	
Ans X A. 2016	
<b>★</b> B. 2017	
X C. 2014	
<b>✓</b> D. 2015	
	Question ID : 97675518016
Q.14 Which among the following Schedule in the Indian Constitution is a Panchayat Raj?	associated with
Ans X A. Eighth	
X B. Ninth	
C. Tenth	
✓ D. Eleventh	
	Question ID : 97675518023
Q.15 49th Constitutional Amendment Act gave a constitutional sanctity District Council in	to the Autonomous
Ans A. Sikkim	
X B. Meghalaya	
C. Arunachal Pradesh	
✓ D. Tripura	
	0 .: .: 2
	Question ID : 97675518024
Q.16 Playing to Win' is the autobiography of which of the following spor	tspersons?
Ans 🗼 A. Saina Nehwal	
X B. Sania Mirza	
C. Anil Kumble	
X D. Novak Djokovic	
, Contain Species	
	Question ID : 97675518021





The given pie chart shows the monthly expenditure of a man (in Rs 1000s). What is the approximate percentage of the man's savings?



Ans

✓ A. 25%

X B. 10%

X C. 40%

X D. 20%

Question ID: 97675518043

Q.6 A number when divided by 15, 21 and 24 leaves a remainder 1. What is the number?

Ans X A. 840

X B. 900

**✓** C. 841

X D. 790

Question ID: 97675518027

Q.7 The wheel of a small toy car has circumference of 30 cm. What is the distance it has travelled when the wheel has made 4.5 revolutions?

Ans

✓ A. 135 cm

X B. 125 cm

X C. 150 cm

X D. 120 cm

Question ID: 97675518038

Q.8 A metal sheet of dimension 44 cm × 20 cm was rolled such that its breadth is now the height of the cylinder so formed. What will be the radius of the cylinder?

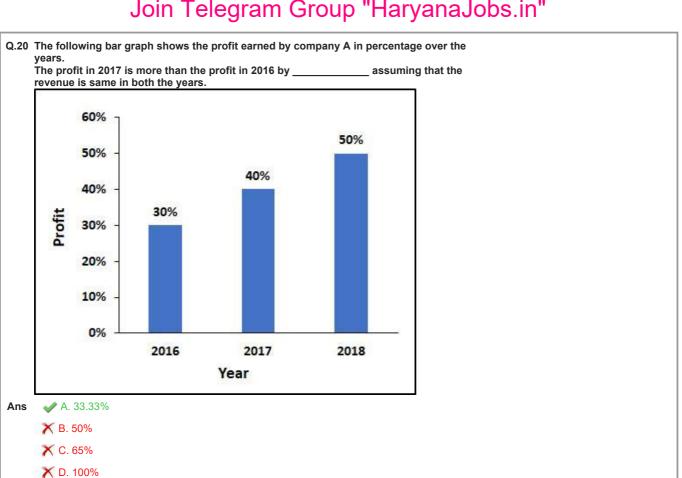
Ans X A. 10 cm

X C. 21 cm

X D. 14 cm

Q.5	There are three light bulbs which blink at an interval of 3, 4 and 5 m start together, then in what time will they all blink together again?	inutes. If they all
Ans	X A. 40 min	
	<b>★</b> B. 30 min	
	<b>★</b> C. 100 min	
	<b>✓</b> D. 60 min	
		Question ID : 97675518030
Q.10	The total number of voters in a small town increased from 40000 to 5 years. What is the arithmetic average percentage increase of vote time span?	
Ans		
	<b>★</b> B. 12%	
	X C. 16%	
	<b>★</b> D. 8%	
		Out a first ID + 07075540022
		Question ID : 97675518033
Q.11	The average weight of 40 girls is 40 kg and the average weight of 40	boys is 50 kg.
Ans	What is the overall average weight?  A. 40 kg	
7.1.10	<b>★</b> B. 60kg	
	✓ C. 45 kg	
	<b>★</b> D. 50kg	
		Question ID : 97675518032
0 12	There are two trains travelling in exposite directions. Train 1 crosses	e train 2 in 20
Q.12	There are two trains travelling in opposite directions. Train 1 crosses seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr	
Q.12 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m	
	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m	
	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  C. 150 m	
	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m	
	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  C. 150 m	
	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  C. 150 m	e length of train 1
Ans Q.13	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?	Question ID : 97675518039
Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700	Question ID : 97675518039
Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710	Question ID : 97675518039
Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900	Question ID : 97675518039
Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710	Question ID : 97675518039
Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900	Question ID : 97675518039
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of	Question ID : 97675518039  m. What will be the  Question ID : 97675518042
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km/hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of A. 11:7:10	Question ID : 97675518039  m. What will be the  Question ID : 97675518042
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of A. 11:7:10  B. 13:8:10	Question ID : 97675518039  m. What will be the  Question ID : 97675518042
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of A. 11:7:10  B. 13:8:10  C. 13:7:10	Question ID : 97675518039  m. What will be the  Question ID : 97675518042
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of A. 11:7:10  B. 13:8:10	Question ID : 97675518039  m. What will be the  Question ID : 97675518042
Q.13 Ans	seconds and a pole in 24 seconds. What is the length of train 2 if the is 192 m? The speed of train 2 is given as 36 km /hr  A. 168 m  B. 360 m  C. 150 m  D. 124 m  Meena decided to paint a hollow cone of height 20 m and radius 21 total cost of painting at the rate of Rs 15 per sq m?  A. Rs 28700  B. Rs 28710  C. Rs 2900  D. Rs 3000  A is 30% more than C and B is 20% less than C. What is the ratio of A. 11:7:10  B. 13:8:10  C. 13:7:10	Question ID : 97675518039  m. What will be the  Question ID : 97675518042

Q.15	Meena sells 70 red n		ue marbles in boxes wi nat is the value of x?	ithout n	nixing such that
Ans	× A. 30				
	<b>✓</b> B. 35				
	X C. 70				
	X D. 45				
				1	Question ID : 97675518028
					Question is . 37073310020
Q.16	The following table s	shows the men and	d women ratio of a few ighest men to women i	countri	es.
	COUNTRY	MEN	WOMEN	i atio :	
	HUNGARY	3	4		
	INDIA	4	5		
	TAIWAN	3	1		
	BHUTAN	2	4		
Ans	X A. India		<u> </u>		
	✓ B. Taiwan				
	X C. Bhutan				
	X D. Hungary				
				1	
					Question ID : 97675518044
Q.17	What will be the sell item marked at Rs 3	ing price if three so	uccessive discounts of	f 10% is	applied on an
Ans	X A. Rs 2100				
	X B. Rs 729				
	✓ C. Rs 2187				
	X D. Rs 1800				
				1	0 11 10 070774
					Question ID : 97675518035
Q.18	A number is increas the new number so	ed by 25%. Two formed?	urth of the original nun	nber is	what percent of
Ans	X A. 45%				
	X B. 50%				
	× C. 25%				
	✓ D. 40%				
				1	Ougoties ID : 07675548934
				l	Question ID : 97675518034
Q.19	work in 60 days and	a man and a woma	days, a woman and a c an can do the same wo vork if all the three wor	rk in 45	days. How many
Ans	X A. 20 days	•		0	
	✓ B. 40 days				
	X C. 30 days				
	X D. 25 days				
					Question ID : 97675518040
				l	2223311.12.1.07.007.007.0



Section: General English Q.1 Select the most appropriate meaning of the given idiom. "Bite the bullet" Ans X A. To get something over with because it is inevitable B. To do something that is nearly impossible X C. To eat a very hard biscuit X D. To procrastinate Question ID: 97675518060 Q.2 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'. As the time rolls by, rats in there thousands die and lie scattered all over / the streets, while vultures begin hovering over the house as more people / start dying in the village and the epidemic kills without discrimination. X A. No Error Ans As the time rolls by, rats in there thousands die and lie scattered all over X C. the streets, while vultures begin hovering over the house as more people X D. start dying in the village and the epidemic kills without discrimination. Question ID: 97675518048

Q.3	.3 Fill in the blank with the appropriate word.		
	Like all classics, this single movement for large orchestra is both lu; both captivating and overwhelming.	minous and	
Ans	✓ A. unfathomable		
	X B. unassailable		
	X C. insatiable		
	X D. unequivocal		
		Question ID : 97675518052	
Q.4	Select the word segment that substitutes (replaces) the bracketed vecorrectly and completes the sentence meaningfully. Select the option required if the sentence is correct as given.		
	The purpose of the Act was to establish an institutional (structured effectively protect, promote and fulfil the fundamental rights guarar Constitution.		
Ans	✓ A. framework		
	X B. qualification		
	X C. reservation		
	X D. no correction required		
		Question ID : 97675518049	
Ans	The principle P: is to present your stand on the issue at Q: hand but effective introductory R: purpose of the introduction S: paragraphs are so much more than that.  X A. SRPQ X B. SPQR C. RPQS  D. RQSP	Question ID: 97675518053	
		Question ib . 97079918099	
2.6	Select the most appropriate 'one word ' for the expression given be	low.	
	"perfect, or complete in every way"		
	X A. consulate		
Ans			
Ans	X B. consume		
Ans			
Ans	X B. consume		
Ans	X B. consume X C. consuetude	Question ID : <b>97675518061</b>	

Q.7	Select the word that is the opposite meaning (ANTONYM) to the word given below.		
	Oblivion		
Ans	X A. Indifference		
	X B. Inadvertence		
	C. Consciousness		
	X D. Featherbrained		
		Question ID : 97675518056	
Q.8	Fill in the blank with the appropriate word.		
	In protest, a nationwide of work was called, marking the	commencement	
	of widespread, although not nationwide, popular discontent.	Commencement	
Ans	X A. persistence		
	✓ B. cessation		
	C. beginning		
	X D. celebration		
		O ID . OTOTES40054	
		Question ID : 97675518051	
Q.9	Some parts of a sentence have been jumbled up, and labelled P, Q, I option that gives the correct sequence in which these parts can be a meaningful and grammatically correct sentence.		
	After Gandhi P: because he was a colored person travelling in first-class, Q: was thrown off a train R: for injustices that many people of color faced S: he took that emotion and used it to commence the fight at the time.		
Ans	X A. QSPR		
	✓ B. QPSR		
	X C. SPQR		
	X D. PQRS		
		Question ID : 97675518054	
		Question ID . 97073310034	
Q.10	Select the word segment that substitutes (replaces) the bracketed we correctly and completes the sentence meaningfully. Select the option required if the sentence is correct as given.		
	The controversy before the Madras High Court (products) from the ibe done after the Human Rights Commission completes its inquiry.	ssue of what is to	
Ans	A. refrains		
	X B. digresses		
	✓ C. stems		
	X D. no correction required		
		Question ID : 97675518050	
Q.11	Select the most appropriate meaning of the given idiom.		
	"To cost an arm and a leg"		
Ans	X A. Not having the means to do basic things in life		
	→ B. Something is very expensive		
	X C. Doing a courageous act		
	X D. Losing something very precious		
		Question ID : 97675518059	

Q.12	.12 Select the word that is closest in meaning (SYNONYM) to the word given below		
	Flabbergasted		
Ans	X A. Disgusted		
	X B. Rubber ring		
	C. Extreme heat		
	✓ D. Surprised		
		Question ID : 97675518055	
Q.13	Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.		
Ans	X A. VISCIOUS		
	X B. VISIOUS		
	✓ C. VICIOUS		
	X D. VICSIOUS		
		Question ID : 97675518057	
Q.14	.14 Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.		
Ans	X A. SOBRIQUE		
	X B. SOUBRIQUET		
	✓ C. SOBRIQUET		
	X D. SOBRIKE		
		Question ID : 97675518058	
Q.15	Q.15 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.		
	A priest uses the opportunity of the plague, / and invoking his god, preach refuge in religion / to overcome the deadly attack.		
Ans	X A. A priest uses the opportunity of the plague,		
	X B. No Error		
	X C. to overcome the deadly attack.		
	D. and invoking his god, preach refuge in religion		
		Question ID : 97675518047	

#### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

All the world's a stage,

And all the men and women merely players;

They have their exits and their entrances ...

- William Shakespeare, As You Like It,

The Philosophy of Rhetoric (1937) by rhetorician I. A. Richards describes a metaphor as having two parts: the tenor and the vehicle. The tenor is the subject to which attributes are ascribed. The vehicle is the object whose attributes are borrowed. In the previous example, "the world" is compared to a stage, describing it with the attributes of "the stage"; "the world" is the tenor, and "a stage" is the vehicle; "men and women" is the secondary tenor, and "players" is the secondary vehicle.

Psychologist Julian Jaynes coined the terms 'metaphrand' and 'metaphier', plus two new concepts, 'paraphrand' and 'paraphier'. 'Metaphrand' is equivalent to the metaphor-theory terms 'tenor', 'target', and 'ground'. 'Metaphier' is equivalent to the metaphor-theory terms 'vehicle', 'figure', and 'source'. In a simple metaphor, an obvious attribute of the metaphier exactly characterizes the metaphrand (e.g. the ship plowed the seas). With an inexact metaphor, however, a metaphier might have associated attributes or nuances - its paraphiers - that enrich the metaphor because they "project back" to the metaphrand, potentially creating new ideas - the paraphrands - associated thereafter with the metaphrand or even leading to a new metaphor. For example, in the metaphor "Pat is a tornado", the metaphrand is "Pat", the metaphier is "tornado". As metaphier, "tornado" carries paraphiers such as power, storm and wind, counter clockwise motion, and danger, threat, destruction, etc. The metaphoric meaning of "tornado" is inexact: one might understand that 'Pat is powerfully destructive' through the paraphrand of physical and emotional destruction; another person might understand the metaphor as 'Pat can spin out of control'. In the latter case, the paraphier of 'spinning motion' has become the paraphrand 'psychological spin', suggesting an entirely new metaphor for emotional unpredictability, a possibly apt description for a human being hardly applicable to a tornado. Based on his analysis, Jaynes claims that metaphors not only enhance description, but "increase enormously our powers of perception...and our understanding, and literally create new objects".

SubQuestion No: 16

Q.16 Metaphrand and metaphier are equivalent to\_\_\_\_\_

Ans X A. Meaning and relation

X B. Cause and effect

C. Target and source

X D. Relation and co-relation

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SubQuestion No: 17

Q.17 What is the "vehicle" in the above passage?

Ans X A. A word that gives a reference to a new word

X B. The subject to which attributes are ascribed

X C. A thing used to express, embody, or fulfil something

D. The object whose attributes are borrowed

#### Comprehension:

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SubQuestion No: 18

Q.18 What is the world compared to?

Ans X A. Needs

B. Stage

X C. Part of life

X D. Arena of opportunities

#### Comprehension:

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SubQuestion No: 19

Q.19 Referring to Julian Jaynes theory and considering the metaphor "All the men and women merely players", what are "men" and "women"?

Ans

X A. history

B. metaphrand

X C. metaphor

X D. metaphier

#### Comprehension:

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SubQuestion No: 20

Q.20 The statements at the start of the passage are attributed to:

Ans X A. George Eliot

B. William Shakespeare

X C. George Orwell

X D. William Blake

Question ID: 97675518067

Section: General Hindi

Q.1 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे का सही अर्थ वाला विकल्प है। सिर पर हाथ होना -

Λne

🥓 A. सहारा होना

🗶 B. आज्ञा मानना

🗶 C. विरोधियों से घिरे होना

🗶 D. अच्छी जगह पर होना

Question ID: 97675518081

Q.2 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई लोकोक्ति का सही अर्थ वाला विकल्प है।

अब की अब, तब की तब -

Ans 💢 A. अपनी इज्जत की रक्षा स्वयं करना

🗶 B. अपनी बड़ाई आप करना

🟋 C. सफलता दूर होना

🛹 D. भविष्य की चिंता छोड़कर वर्त्तमान की ही सोचना

Q.3	ि निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए शब्द का तद्भव रूप हो। इमि		
Ans			
	<b>У</b> В. एаम		
	<b>Х</b> С. ऐसा		
	<b>X</b> D. एका		
		Question ID : 97675518069	
Q.4	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विराम चिह्न	युक्त वाक्य का सही	
	विकल्प हो।		
Ans	🗙 A. जब शेर इंतजार करते करते थक गया, तब उसने सोचा चलें ज़रा मोची का पत		
	💢 B. जब शेर इंतजार करते करते थक गया तब उसने सोचा चलें ज़रा मोची का पता		
	✓ C. जब शेर इंतजार करते-करते थक गया, तब उसने सोचा, "चलें, ज़रा मोची का		
	💢 D. जब शेर इंतजार करते करते थक गया तब उसने सोचा "चलें ज़रा मोची का पत	ा लगाए "	
		Question ID : 97675518079	
_	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विदेशी शब्द	का सही विकल्प हो।	
Ans	🗙 A. धक्का		
	🗶 B. डकारा		
	X C. खटपट		
	<b>৵</b> D. चेहरा		
		Question ID : 97675518068	
Q.6	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वार भेद का सही विकल्प हो। वह दिन भर काम करता रहा।	म्य के लिए अव्यय के	
Ans	🗙 A. समानाधिकरण समुच्चयबोधक अव्यय		
	🗶 B. विस्मयादिबोधक अव्यय		
	🗶 C. व्यधिकरण समुच्चयबोधक अव्यय		
	🛹 D. क्रियाविशेषण अव्यय		
		O	
		Question ID : 97675518071	
Q.7	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो क्रिया के भे	इ वाला सही विकल्प	
	हो। मैंने खाना बनवाया।		
Ans	X A. तात्कालिक क्रिया		
	🗙 B. पूर्वकालिक क्रिया		
	🗙 C. नामधातु क्रिया		
	✓ D. प्रेरणार्थक क्रिया		
		Question ID : 97675518070	
Q.8	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो शुद्ध शब्द व	ग सही विकल्प है।	
Ans	✔ A. अर्धांगिनी		
	🗶 B. अरधंगिनी		
	🗶 C. अर्धांगीनी		
	🗶 D. अरधागिनी		
		0 11 12 22222	
		Question ID : 97675518075	

Q.5	विकल्प है।	क्या सबस अच्छा
Ans	🗶 A. मैं जानता हूँ तुम्हारे अक्षर अच्छा नहीं बनते है।	
	🥓 B. मैं जानता हूँ कि तुम्हारे अक्षर अच्छे नहीं बनते है।	
	🗶 C. मैं जानता हूँ कि तुम अक्षर अच्छे नहीं बनाते है।	
	🗶 D. मैं जानता कि तुम्हारा अक्षर अच्छे नहीं बनते है।	
		Out a fine ID : 07075540077
		Question ID : 97675518077
Q.10	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वाज् का सबसे अच्छा विकल्प है। स्वादिष्ट खाने को देखकर भूख बढ़ती जा रही है!	क्य के लिए पक्ष के भेद
Ans	✔ A. प्रगतिद्योतक	
	🗙 B. पूर्णताद्योतक	
	🗶 C. सातप्यबोधक	
	🗶 D. आरंभद्योतक	
		Question ID : 97675518078
		Question ID . 97073318070
Q.11	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुह वाला विकल्प है। सिर धुनना -	गवरे का सही अर्थ
Ans	<b>ॗ</b> ∧. पछताना	
	🗶 B. कृतज्ञ होना	
	🗶 C. लजा जाना	
	🗙 D. मुसीबत दूर होना	
		O
		Question ID : 97675518080
Q.12	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विलोम शब्द विकल्प है।	इ का सबसे अच्छा
	मर्त्य	
Ans	<b>Х</b> А. मृत	
	🗶 B. मृदुल	
	<b>✓</b> C. अमर	
	🗙 D. मृत्यू	
		Question ID : 97675518072
Q.13	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो रिक्त	स्थान के लिए उपयुक्त
	शब्द का सही विकल्प है । सभी शिष्य मैदान में खड़े हो गए।	
Ans	X A. कहकर	
	<b>X</b> B. होकर	
	<b>৵</b> C. आकर	
	🗙 D. गुजरकर	
		Ougation ID : 0707Ff40074
		Question ID : 97675518074

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Q.14	4 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो सही वाक्य ज्यों ही उसने दवा पी, वह सो गया।	भेद का विकल्प हो	
Ans	🗙 🗙 A. विधानवाचक वाक्य		
	🗙 B. सरल वाक्य		
	🔀 C. संयुक्त वाक्य		
	✔ D. मिश्र वाक्य		
		Question ID : 97675518076	
Q.15	<ul> <li>निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो दिए ग का उचित विकल्प हो। बंदर</li> </ul>	ए शब्द के सही अर्थ	
Ans	🗶 🗙 A. वसु		
	🗶 B. सैकत		
	🗶 C. खग		
	<b>৵</b> D. हरि		
		Question ID : 97675518073	
	Comprehension: नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें। मेरे मकान के आगे चौराहे पर फुटपाथ पर खाना खाने वाले लोग बैठते हैं- रिक्शेवाले, मजदूर, फेरीवाले, कबाड़ीवाले। लोग कहते हैं "आपको बुरा नहीं लगता? लोग सड़क पर गन्दा फैला रहे हैं और आप इन्हें बर्दाश्त कर रहे हैं? इनके कारण पूरे मोहल्ले की आबोहवा खराब हो रही है।" मैं उनकी बातों को हल्के में ही लेता हूँ। मुझे पता है कि यहाँ जो लोग जुटते हैं वे गरीब लोग होते हैं। अपने काम-धाम के बीच रोटी खाने चले आते हैं और खाकर चले जाते हैं। ये आमतौर पर गरीब ईमानदार लोग हैं जो हमारे इस परिसर के स्थायी सदस्य हो गए हैं। ये उन अशिष्ट अमीरों से भिन्न हैं, जो साधारण-सी बात पर भी हंगामा खड़ा कर देते हैं। लोगों के पास पैसा तो आ गया पर रहने का तरीका नहीं आया। अधजल गगरी छलकत जाए की तर्ज पर इनमें दिखावे की भावना उबाल खाती है।   इस दुनिया में कहा-सुनी होती है, हाथापाई भी हो जाती है लेकिन कोई किसी के प्रति गाँठ नहीं बाँधता। दूसरे-तीसरे ही दिन परस्पर हँसते-बितयाते और एक-दूसरे के दुःख-दर्द में शामिल होते दिखाई पड़ते हैं।		
	SubQuestion No : 16		
Q.16	हें साधारण बात पर भी हंगामा कौन खड़ा कर देते हैं?		
A	-		
Ans	🗙 A. लेखक के अपरिचित लोग		
Ans	<ul> <li>A. लेखक के अपरिचित लोग</li> <li>B. गाँव से आए गरीब मजदूर</li> </ul>		
Ans	<ul> <li>A. लेखक के अपरिचित लोग</li> <li>B. गाँव से आए गरीब मजदूर</li> <li>C. अमीर किन्तु असभ्य लोग</li> </ul>		
Ans	<ul> <li>A. लेखक के अपरिचित लोग</li> <li>B. गाँव से आए गरीब मजदूर</li> </ul>		

#### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

मेरे मकान के आगे चौराहे पर फुटपाथ पर खाना खाने वाले लोग बैठते हैं- रिक्शेवाले, मजदूर, फेरीवाले, कबाड़ीवाले...। लोग कहते हैं "आपको बुरा नहीं लगता? लोग सड़क पर गन्दा फैला रहे हैं और आप इन्हें बर्दाश्त कर रहे हैं? इनके कारण पूरे मोहल्ले की आबोहवा खराब हो रही है।" मैं उनकी बातों को हल्के में ही लेता हूँ। मुझे पता है कि यहाँ जो लोग जुटते हैं वे गरीब लोग होते हैं। अपने काम-धाम के बीच रोटी खाने चले आते हैं और खाकर चले जाते हैं। ये आमतौर पर गरीब ईमानदार लोग हैं जो हमारे इस परिसर के स्थायी सदस्य हो गए हैं। ये उन अशिष्ठ अमीरों से भिन्न हैं, जो साधारण-सी बात पर भी हंगामा खड़ा कर देते हैं। लोगों के पास पैसा तो आ गया पर रहने का तरीका नहीं आया। अधजल गगरी छलकत जाए की तर्ज पर इनमें दिखावे की भावना उबाल खाती है। | इस दुनिया में कहा-सुनी होती है, हाथापाई भी हो जाती है लेकिन कोई किसी के प्रति गाँठ नहीं बाँधता। दूसरे-तीसरे ही दिन परस्पर हँसते-बतियाते और एक-दूसरे के दु:ख-दर्द में शामिल होते दिखाई पड़ते हैं।

SubQuestion No: 17

Q.17 "इस दुनिया में कहा-सुनी होती है" - 'इस दुनिया' का संकेत है

Ans 💢 A. लेखक को उकसाने वाला पड़ोस

🥒 B. गाँव से शहर आ बसे गरीब

🗶 C. अमीर किन्तु अशिष्ट लोग

\chi D. गाँव से शहर जा बसे मजदूरों की दुनिया

Question ID: 97675518086

#### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

मेरे मकान के आगे चौराहे पर फुटपाथ पर खाना खाने वाले लोग बैठते हैं- रिक्शेवाले, मजदूर, फेरीवाले, कबाड़ीवाले...। लोग कहते हैं "आपको बुरा नहीं लगता? लोग सड़क पर गन्दा फैला रहे हैं और आप इन्हें बर्दाश्त कर रहे हैं? इनके कारण पूरे मोहल्ले की आबोहवा खराब हो रही है।" मैं उनकी बातों को हल्के में ही लेता हूँ। मुझे पता है कि यहाँ जो लोग जुटते हैं वे गरीब लोग होते हैं। अपने काम-धाम के बीच रोटी खाने चले आते हैं और खाकर चले जाते हैं। ये आमतौर पर गरीब ईमानदार लोग हैं जो हमारे इस परिसर के स्थायी सदस्य हो गए हैं। ये उन अशिष्ठ अमीरों से भिन्न हैं, जो साधारण-सी बात पर भी हंगामा खड़ा कर देते हैं। लोगों के पास पैसा तो आ गया पर रहने का तरीका नहीं आया। अधजल गगरी छलकत जाए की तर्ज पर इनमें दिखावे की भावना उबाल खाती है। | इस दुनिया में कहा-सुनी होती है, हाथापाई भी हो जाती है लेकिन कोई किसी के प्रति गाँठ नहीं बाँधता। दूसरे-तीसरे ही दिन परस्पर हँसते-बितयाते और एक-दूसरे के दु:ख-दर्द में शामिल होते दिखाई पड़ते हैं।

SubQuestion No: 18

Q.18 लेखक लोगों की शिकायतों को हल्के में क्यों लेता है?

Ans 🔀 A. लेखक उन्हें जानता-पहचानता है

\chi B. शिकायत करना लोगों की आदत होती है

🗶 C. वह किसी बात को गम्भीरता से नहीं लेता

✔ D. जुटने वाले लोग गरीब और ईमानदार हैं

#### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

मेरे मकान के आगे चौराहे पर फुटपाथ पर खाना खाने वाले लोग बैठते हैं- रिक्शेवाले, मजदूर, फेरीवाले, कबाड़ीवाले...। लोग कहते हैं "आपको बुरा नहीं लगता? लोग सड़क पर गन्दा फैला रहे हैं और आप इन्हें बर्दाश्त कर रहे हैं? इनके कारण पूरे मोहल्ले की आबोहवा खराब हो रही है।" मैं उनकी बातों को हल्के में ही लेता हूँ। मुझे पता है कि यहाँ जो लोग जुटते हैं वे गरीब लोग होते हैं। अपने काम-धाम के बीच रोटी खाने चले आते हैं और खाकर चले जाते हैं। ये ऑमतौर पर गरीब ईमानदार लोग हैं जो हमारे इस परिसर के स्थायी सदस्य हो गए हैं। ये उन अशिष्ट अमीरों से भिन्न हैं, जो साधारण-सी बात पर भी हंगामा खड़ा कर देते हैं। लोगों के पास पैसा तो आ गया पर रहने का तरीका नहीं आया। अधजल गगरी छलकत जाए की तर्ज पर इनमें दिखावे की भावना उबाल खाती है। | इस दुनिया में कहा-सुनी होती है, हाथापाई भी हो जाती है लेकिन कोई किसी के प्रति गाँठ नहीं बाँधता। दूसरे-तींसरे ही दिन परस्पर हँसते-बतियाते और एक-दूसरे के दुःख-दर्द में शामिल होते दिखाई पड़ते हैं।

SubQuestion No: 19

Q.19 इनमें से कौन - सा अशिष्ट का पर्यायवाची नहीं है?

🥒 A. विनीत

🗶 B. अविनीत

🗙 C. उजड़

🗶 D. असभ्य

Question ID: 97675518087

#### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

मेरे मकान के आगे चौराहे पर फुटपाथ पर खाना खाने वाले लोग बैठते हैं- रिक्शेवाले, मजदूर, फेरीवाले, कबाड़ीवाले...। लोग कहते हैं "आपको बुरा नहीं लगता? लोग सड़क पर गन्दा फैला रहे हैं और आप इन्हें बर्दाश्त कर रहे हैं? इनके कारण पूरे मोहल्ले की आबोहवा खराब हो रही है।" मैं उनकी बातों को हल्के में ही लेता हूँ। मुझे पता है कि यहाँ जो लोग जुटते हैं वे गरीब लोग होते हैं। अपने काम-धाम के बीच रोटी खाने चले आते हैं और खाकर चले जाते हैं। ये ऑमतौर पर गरीब ईमानदार लोग हैं जो हमारे इस परिसर के स्थायी सदस्य हो गए हैं। ये उन अशिष्ट अमीरों से भिन्न हैं, जो साधारण-सी बात पर भी हंगामा खड़ा कर देते हैं। लोगों के पास पैसा तो आ गया पर रहने का तरीका नहीं आया। अधजल गगरी छलकत जाए की तर्ज पर इनमें दिखावे की भावना उबाल खाती है। इस दुनिया में कहा-सुनी होती है, हाथापाई भी हो जाती है लेकिन कोई किसी के प्रति गाँठ नहीं बाँधता। दूसरे-तींसरे ही दिन परस्पर हँसते-बतियाते और एक-दूसरे के दुःख-दर्द में शामिल होते दिखाई पड़ते हैं।

SubQuestion No: 20

Q.20 इस अनुच्छेद का कोई उपयुक्त शीर्षक-

Ans 🗙 A. शिष्ट परिवार

🟋 C. गरीबों की शिकायत

🗶 D. अशिष्ट मज़दूर

Question ID: 97675518088

Section: Discipline1

Q.1 A block of weight 250 N is placed on an inclined plane, which makes an angle of 200 with the horizontal. The components of this weight parallel to the inclined plane and perpendicular to the inclined plane are , respectively.

X A. 204.2 N, 36.59 N

✓ B. 85.5 N, 234.92 N

X C. 72.5 N, 56.25 N

X D. 92.85 N, 182.6 N

Q.2	Calculate the distance of a centroid from the top of a T-section wherein width of the flange $= 150$ mm, height of the flange $= 10$ mm, width of the web $= 10$ mm and height of the web $= 140$ mm.	
Ans	× A. 72.98 mm	
	✓ B. 41.21 mm	
	× c. 55.68 mm	
	➤ D. 68.23 mm	
		Question ID : 97675518094
Q.3	A 20-mm-thick soil sample takes 20 min to reach 20% consolidation. The time taken for a 6-40% consolidation is (Assume double drainage in both cases.)	m-thick clay layer to reach
Ans	★ A. 14.2 years	
	★ B. 12.2 years	
	★ c. 15.6 years	
	✓ D. 13.7 years	
		0.000 10.07075544400
		Question ID : 97675518106
Q.4	In bolted connections, the minimum pitch allowed as per	IS: 800-2007 is:
Ans	X A. 2.7 × diameter of the bolt	
	$\checkmark$ B. 2.5 × diameter of the bolt	
	× c. 1.5 × diameter of the bolt	
	$\times$ D. 3 × diameter of the bolt	
		Question ID : 97675518097
Q.5	A simply supported beam AB of length 10 m carries point loads 100 kN and 80 kN at a disrespectively, from end A. It also carries a uniformly distributed load of 10 kN/m between the reactions at A and B are and, respectively.	
Ans	× A. 163 kN, 57 kN	
	× B. 54 kN, 166 kN	
	X D. 25 kN, 195 kN	
		Question ID : 97675518092
		Question ID . 37073318032
Q.6	A single bolted lap joint is used to connect two plates 8 mm thick. If bolts of 20 mm diamet and if we use Fe410 plate and 4.6 grade of bolt, then the efficiency of the joint is	er are used at 60 mm pitch
Ans	X A. 45.23%	
	<b>✔</b> B. 31.94%	
	<b>×</b> c. 51.23%	
	<b>X</b> D. 21.45%	
		Question ID : 97675518100

Which of the following is the correct expression for calculating the direction  $(\theta)$  of the resultant force between two Q.7

Ans

$$\times$$
 A.  $\theta = \tan^{-1}(\frac{Psin\alpha}{P + Ocos\alpha})$ 

$$\times$$
 B.  $\theta$ =tan<sup>-1</sup>( $\frac{Qcos\alpha}{P+Qsin\alpha}$ )

$$\checkmark$$
 c.  $\theta = \tan^{-1}(\frac{Qsin\alpha}{P + Qcos\alpha})$ 

$$\times$$
 D.  $\theta$ =tan<sup>-1</sup>( $\frac{Psin\alpha}{P+Qsin\alpha}$ )

Question ID: 97675518089

A strip footing is 1m wide at its base. It is located at a depth of 0.8 m below the ground level. Consider unit weight of soil =  $18~\rm kN/m^3$ , cohesion =  $30~\rm kN/m^2$  and the angle of friction =  $20^0$ . Calculate the safe bearing capacity of soil using terzaghi's analysis. (Take  $N_q = 3.9$ ,  $N_c = 11.8$ ,  $N_\gamma = 1.7$ , factory of safety = 2.5.)

- X A. 112.09 kN/m<sup>2</sup>
- X B. 108.33 kN/m<sup>2</sup>
- ✓ C. 131.62 kN/m<sup>2</sup>
- X D. 126.24 kN/m<sup>2</sup>

Question ID: 97675518108

Q.9 The natural water content, liquid limit and plastic limit of a clay sample are 20%, 40% and 18%, respectively. Its liquidity index is:

- Ans X A. 0.06
  - X B. 0.07
  - X C. 0.08
  - ✓ D. 0.09

Question ID: 97675518103

Q.10 If a soil sample in its natural state is fully saturated, it will have water content of 30%. The total weight of water required to saturate a soil mass of volume  $10\text{m}^3$  is: (Assume  $G_s = 2.60$ .)

- Ans X A. 440 KN
  - X B. 220 KN
  - X C. 22 KN
  - ✓ D. 44 KN

Question ID: 97675518101

Q.11 A truss member consists of two angles of ISA 75×75×6, which are placed back to back carrying an ultimate tensile load of 200 KN. The member is connected to an 8-mm thick gusset placed in between the two connected legs using 16 mm diameter bolts of grade 4.6. How many bolts are required? (Assume  $f_\mu$  of plates as 410 MPa.)

- Ans XA. 6

  - X C. 2
  - X D. 8

٠ـ	The diameter of a clean capillary tube is 0.06 mm. Determine the expected rise of water in the tube.		
Ans	✓ A. 50 cm		
	<b>★</b> B. 42 cm		
	<b>×</b> c. 35 cm		
	<b>X</b> D. 27 cm		
		Question ID : 97675518104	
Q.13	The correct unit of force among the following is:		
Ans			
7	× A. kg-m/sec		
	X B. Kg/m/sec		
	× c. kg/m/sec <sup>2</sup>		
	✓ D. kg-m/sec <sup>2</sup>		
		Question ID : 97675518093	
Q 14	William in the fall farmer of TGM GGO		
Ans	What is the full form of ISMC?		
74.10	X A. Indian standard mortar and cement		
	✓ B. Indian standard medium weight channel		
	★ c. Indian standard for mixing cement		
	➤ D. Indian standard mean compaction		
		Question ID : 97675518099	
Q.15	A clay layer of 6 m thickness has an existing overburden pressure of 300 kpa at the centre of the clay layer. The pressure is expected to increase by 150 kpa due to a new building. By taking $c_c = 0.45$ , $w = 50\%$ and $G = 2.71$ , calculate the consolidation settlement.		
Ans	X A. 147.25 mm		
	× B. 198.56 mm		
	<b>×</b> c. 250.84 mm		
	✓ D. 201.88 mm		
		Question ID : 97675518105	
Q.16	A circular area of 6 m diameter carries a uniformly distributed load of 10 kN/m <sup>2</sup> . The vertical	stress at a depth of 5 m is:	
Ans	$\times$ A. 1.79 kN/m <sup>2</sup>		
	$\times$ B. 8.29 kN/m <sup>2</sup>		
	$\sim$ C. 3.69 kN/m <sup>2</sup>		
	$\times$ D. 4.88 kN/m <sup>2</sup>		
		Question ID : 97675518107	

Q.17 If two concurrent forces P and Q of magnitude 25 N and 50 N are acting away from the point of concurrency and inclined at angles 15° and 30° with the horizontal plane respectively, the magnitude of the resultant force is:

Ans X A. 64.25 N

✓ B. 74.43 N

X C. 85.26 N

X D. 58.63 N

Question ID: 97675518090

Q.18 The equation that represents the A-line on the plasticity chart is:

$$\sim$$
 A.  $I_p = 0.73(w_1 - 20)$ 

$$\times$$
 B.  $w_1 = 0.73(I_p - 20)$ 

$$\times$$
 c.  $I_p = 0.2(w_1 - 73)$ 

$$\times$$
 D.  $w_1 = 0.2(I_p - 73)$ 

Question ID: 97675518102

Q.19 A boat is rowed at a velocity of 30 km/h across (perpendicular to the direction of stream) a river. The velocity of the stream is 10 km/h. The resultant velocity of the boat (in km/h) is:

Ans X A. 47.28

✓ B. 31.62

X C. 42.5

X D. 51.42

Question ID: 97675518095

Q.20 Which of the following is the main advantage of rivets in steel construction?

Ans

✓ A. They do not loosen when subjected to vibration.

X B. They need pre-heating.

X c. They provide an aesthetic finish

X D. Less workforce is required.

Question ID: 97675518096

Section: Discipline2

#### Match the following

Traffic sign	General shape
1.regulatory signs	a. triangular
2. warning signs	b. rectangular
3.informatory signs	c. circular

Ans A. 1-c, 2-a, 3-b

X B. 1-c, 2-c, 3-a

X c. 1-a, 2-b, 3-c

X D. 1-b, 2-a, 3-c

Question ID: 97675518125

Q.2 Plate load tests were conducted in a c-φ soil on the plates of two different sizes and the following data was obtained.

Load	Size of plate	Settlement
40 kN	0.3m X 0.3m	25 mm
100kN	0.6m X 0.6m	25 mm

The size of the square footing required to carry a load of 600 kN at the same specified settlement is:

Ans X A. 1.75 m

X B. 2.15 m

X C. 2.27 m

✓ D. 1.92 m

Question ID: 97675518111

Q.3 In a braking test, a vehicle travelling at a speed of 40km/h was stopped by applying brakes fully; the skid marks were 6.3 m in length. The average skid resistance of the pavement surface is (take  $g = 10 ms^{-2}$ ):

Ans X A. 0.86

X B. 0.72

X C. 0.61

✓ D. 0.98

Question ID: 97675518122

Q.4 In a collision diagram, the symbols → ○ ← and → ● ← represent \_\_\_\_\_ and \_\_\_\_\_, respectively.

Ans X A. parked vehicle, fixed object

X c. rear-end collision, front-end collision

X D. side swipe, out of control

		Question ID : 97675518113	
	➤ D. 22.56 MPa		
	<b>×</b> c. 29.23 Mpa		
	✓ B. 26.63 MPa		
Ans	× A. 17.28 MPa		
Q.9	The strength of a sample of fully matured concrete is found to be 40 MPa. Find the strength the age of 7 days, when cured at an average temperature of 20° C during daytime and averduring night time (take A = 32, B = 54).		
0.0			
		Question ID : 97675518118	
	✓ D. metallic		
	× c. dull		
	× B. silky		
Ans	× A. vitreous		
Q.8	The lustre of pyrite is:		
		Question ID : 97675518127	
	X D. IS 1893 ; 2002		
	X C. IS 875: 1987		
	X B. IS 1343 : 1980		
Ans	✓ A. IS 13920 : 1993		
Q.7	Which IS code is referred to for the ductile detailing of reinforced concrete structures sul	bjected to seismic forces?	
		Question ID : 97675518121	
	X D. 3.2 m		
	X C. 1.8 m		
	X B. 2.2 m		
Ans	✓ A. 2.5 m		
Q.6	Maximum width of all vehicles excluding the front and	rear bumper is:	
		Question ID : 97675518128	
	20 mm, 20 mm and 40 mm		
	➤ D. 20 mm, 20 mm and 40 mm		
	★ c. 20 mm, 25 mm and 20 mm		
	✓ B. 20 mm, 25 mm and 35 mm		
Ans	supported beams, slabs and ribs are  X A. 20 mm, 25 mm and 40 mm		
Q.5	According to IS 456: 2000, for a nominal 1.5-hour fire resistance, the nominal covers specified for the simply		

Q.10	High tensile steel usually contains % of carbon and	% of manganese.
Ans	XA 0.7 to 0.85 and 0.75 to 1	
	X B. 0.6 to 0.85 and 0.75 to 1	
	✓ C. 0.6 to 0.85 and 0.7 to 1	
	X D. 0.7 to 0.85 and 0.7 to 1	
	Medica - क्षेत्रकान के विश्वविद्यालया अवस्था अवस्था । अव अवस्था । अवस्था । अव	
		Question ID : 97675518126
Q.11	Which of the following is/are true about cast-in-situ piles?	
	<ul><li>a) Piles of any size and length may be constructed at the site.</li><li>b) The damage due to driving and handling, which is common in the precast piles, is</li></ul>	aliminated in this case
	c) They are suitable in soils of poor drainage qualities.	eminiated in this case.
	d)They cause vibrations and affect the surrounding structures.	
Ans	✓ A. a, b and c only	
	× B. d and c only	
	× c. b, c and d only	
	10 4 1-70 100 400 400 400 10 4	
	X D. a and b only	
		Question ID : 97675518112
0.40	1	S
Q.12	A concrete pile of diameter 30 cm is driven into a homogenous consolidated clay deposit hav and adhesion factor of 0.7. If the embedded length is 10 m, the safe load is, (Take	ing cohesion of 40 kN/m <sup>2</sup> factor of safety as 3.)
Ans	X A. 73.95 kN	
	× B. 82.15 kN	
	× D. 56.25 kN	
		0 11 12 222221111
		Question ID : 97675518110
Q.13	The acute vision cone is around degrees around	the line of sight.
Ans	<b>✓</b> A. 3	
	<b>X</b> B. 5	
	<b>X</b> c. 9	
	<b>X</b> D. 7	
		Question ID : 97675518120
Q.14	Which of the following options is INCORRECT with respect to	he plate load test?
Ans	<b>★</b> A.	
	The bottom of the pit should coincide with the level of	the foundation.
	✓B.  The size of the plate should be equal to the size of	the feeting
	The size of the plate should be equal to the size of	me roomig.
	★ C. A seating load of about 70 gm/cm <sup>2</sup> is first applied and released	after some time
	D.	and some mile.
	The test should continue until a total settlement of 2.5 cm or the settlement at which the soil	fails, whichever is earlier.
		Question ID : 97675518109

Q.15 From the following information, identify the critical path.

Activity	Time in weeks	Preceded by
A	15	2
В	15	-
C	3	A
D	5	A
E	8	B, C
F	12	B, C
G	1	Е
H	14	E
I	3	D, G
J	14	F, H, I

Ans X A. B-F-J

X B. B-E-G-I-J

✓ C. A-C-E-H-J

X D. A-C-E-G-I-J

Question ID: 97675518114

Q.16 Horizontal communication does NOT include:

✓ A directing subordinates

X B. task co-ordination

C. problem solving

X D. conflict resolution

Question ID: 97675518115

Q.17 Which of the following is NOT a method used to obtain self-compacting concrete?

X A. Use of plasticizers

X B. Low water-powder ratio

X C. Limited aggregate content

✓ D. Increasing the water content beyond 350 litres per cum

Question ID: 97675518119

Q.18 The correct order of steps involved in preparation of brick earth for clay brick manufacturing process is:

X A. digging→weathering→unsoiling→tempering→ blending

× B. digging→weathering→blending→tempering→unsoiling

 ✓ c. Unsoiling→digging→weathering→blending→tempering

X D. Unsoiling→tempering→digging→blending→weathering

Join Telegram Group "HaryanaJobs.in" Q.19 Who defined management as 'the art of getting things done through people'? Ans X A. Henri Fayol X B. Newman and Summer X c. George R Terry ✓ D. Mary Parker Follett Question ID: 97675518117 From the data in the given table, the modal speed is:

Speed range,	No. of speed observations
km/h 0-10	0
10-20	11
20-30	30
30-40	105
40-50	233
50-60	216
60-70	68
70-80	24
80-90	0

× B. 37 km/h

× c. 32 km/h

X D. 55 km/h

Question ID: 97675518123

Section : Discipline3

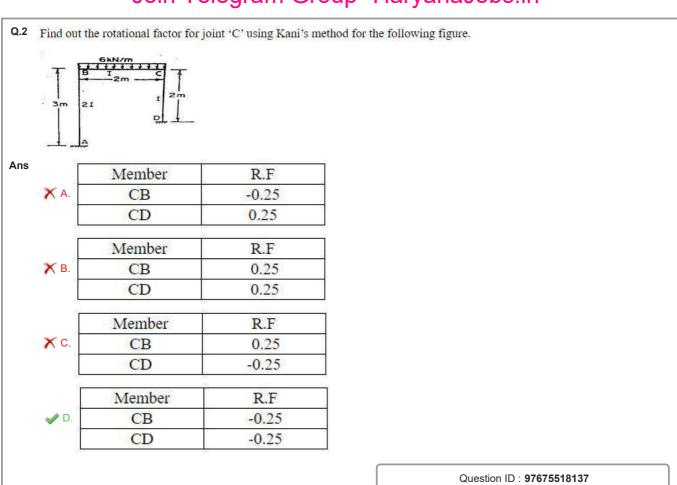
Lysimeters and field plots are used to measure:

Ans X A. interception

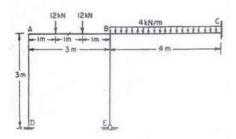
✓ B. evapotranspiration

× c. infiltration

× D. precipitation



Q.3



From the above figure,

find out the distribution factor for joint 'B' using moment distribution method.

Ans

	Member	D.F	
✓ A.	BA	0.4	Ì
~ A.	BE	0.3	Î
	BC	0.3	Ĭ

	Member	D.F
<b>X</b> B. −	BA	0.4
<b>N</b> D.	BE	0.4
	BC	0.3

	Member	D.F	J
<b>X</b> C.	BA	0.3	Ĵ
<b>7</b> C.	BE	0.3	Î
8	BC	0.4	Ŷ

	Member	D.F	
<b>X</b> D.	BA	0.3	ĵ
, D.	BE	0.4	]
8	BC	0.3	Ŷ

Question ID: 97675518134

#### Match the following.

Type of lining	Values of Manning's Rugosity Coefficient 'n' for straight alignment
1. Brick lining	A. 0.018 - 0.020
2. Split boulder lining	B. 0.025 - 0.035
3. Round boulder lining	C. 0.020 – 0.025

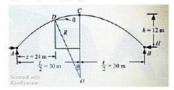
Ans X A. 1-A, 2-B, 3-C

X B. 1-C, 2-A, 3-B

✓ C. 1-A, 2-C, 3-B

X D. 1-C, 2-B, 3-A

A three-hinged symmetric circular arch has a span of 60 m and a rise of 12 m. Find the value of  $^{\circ}\theta^{\circ}$  from the given figure by using properties of circle formula.



Ans

 $\times$  A.  $\theta = 6.928^{\circ}$ 

 $\checkmark$  B. θ = 7.928°

 $\times$  C.  $\theta = 9.928^{\circ}$ 

 $\times$  D.  $\theta = 8.928^{\circ}$ 

Question ID: 97675518135

Q.6 Determine the time taken to irrigate a strip of land 400 m<sup>2</sup> in area and with a discharge through supply ditch of 70.5 m3/hr. The irrigation capacity of the soil is taken as 0.05 m/hr and the average depth of the water flowing over the border strip is 0.1m.

Ans X A. 35 minutes

X B. 45 minutes

✓ C. 40 minutes

X D. 30 minutes

Question ID: 97675518143

Q.7 In case of pin-connected trusses, which method is used to find the deflections of a single joint at a time?

X A. Stiffness matrix method

X B. Willot-Mohr's method

X c. Joint displacement method

D. Castigliano's method

Question ID: 97675518133

can be defined as a plot of intensity of rainfall against the time interval, represented as a bar chart, Q.8 which is used for analysing precipitation data.

Ans X A. hydrograph

X B. depth area duration curve

✓ C. hyetograph

X D. mass curve

Question ID: 97675518138

Q.9 For highways, the maximum legal axle load as specified by IRC is \_\_\_\_\_ with a maximum equivalent single wheel load

Ans

X A 8170 kg, 4850 kg

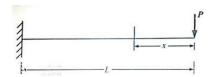
X B. 8710 kg, 4580 kg

× c. 8710 kg, 4805 kg

✓ D. 8170 kg, 4085 kg

#### Q.10 Using strain energy,

which formula is used to find the deflection of the free end of the cantilever beam of length 'L' subjected to concentrated load 'p' at the free end?



Ans

$$\wedge$$
 A.  $\Delta = \frac{PL^3}{2EI}$ 

$$\times$$
 B.  $\Delta = \frac{PL^3}{4EI}$ 

$$\checkmark$$
 C.  $\Delta = \frac{PL^3}{3EI}$ 

$$\nearrow$$
 D.  $\triangle = \frac{PL^3}{EI}$ 

Question ID: 97675518132

Q.11 A catchment has 3 rain gauge stations. In a year, the annual rainfalls recorded by the gauges are as follows:

Station	A	В	C
Rainfall	80	100	180

For a 9% error in the estimation of rainfall, calculate the optimum number of stations in the catchment.

Question ID: 97675518142

Q.12 In case of slenderness limits, according to IS 456 - 2000, the ratio of unsupported length (I) to the least lateral dimension (d) of a column should not exceed a value of \_\_

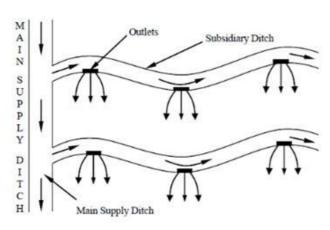
Question ID: 97675518130

A rectangular reinforced concrete beam of size 250 mm  $\times$  600 mm is simply supported on two masonry walls 230 mm thick and 6 m apart (centre to centre). A beam has to carry, in addition to its own weight, a distributed live load of 10 KN/m and a dead load of 5 KN/m. Determine the factored moment.

(Take safety factor as 1.5 and effective cover as 50 mm.)

Q.14	The is used under rigid pavement for preventing pumping and protecting the	subgrade under frost action.
Ans	X A sub base course	
	➤ B. soil subgrade	
	✓ C. base course	
	X □ surface course	
		Question ID : 97675518147
Q.15	By which of the following formulas can we measure the	e excess rainfall?
Ans	✓ A. Excess rainfall = Rainfall - initial basin loss	- infiltration
	➤ B. Excess rainfall = Rainfall + initial basin loss	+ infiltration
	★ C. Excess rainfall = Rainfall - initial basin loss	+ infiltration
	➤ D. Excess rainfall = Rainfall + initial basin loss	- infiltration
		Question ID : 97675518140
Q.16	A pre-stressed concrete beam 100 mm wide and 300 mm deep is pre-stressed by straigly force of 150 KN at an eccentricity of 50 mm. Determine the loss of pre-stress due to electroncrete if the area of steel wires is 188 mm <sup>2</sup> . Take E <sub>s</sub> and E <sub>c</sub> as 210 kN/mm <sup>2</sup> and 35 MeV A. 40 N/mm <sup>2</sup> **No. 60 N/mm <sup>2</sup> **C. 20 N/mm <sup>2</sup> **D. 80 N/mm <sup>2</sup>	astic deformation of
		Question ID : 97675518131
Q.17	Trickle irrigation is also known as:	
Ans	X A flood irrigation	
	★ c. sub-surface irrigation	
	X D. lift irrigation	
		Question ID : 97675518145

Q.18



Identify the type of flooding shown in the given figure.

- X A. Check flooding
- X B. Border flooding
- ✓ C. Free flooding
- X D. Basin flooding

Question ID: 97675518144

Q.19 A lake had a water surface elevation of 102.91 m above datum at the beginning of the month. The average lake surface area can be taken as 5000 ha.

Given,

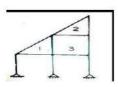
- 1. Inflow volume = 16 Mm<sup>3</sup>
- 2. Outflow volume = 16 Mm3
- 3. Input due to precipitation =  $7.5 \text{ Mm}^3$
- 4. Outflow due to evaporation = 3 Mm<sup>3</sup>

Find out the net water surface elevation at the end of the month

- Ans X A. 103.25 m
  - X B. 102.5 m
  - X C. 102.75 m
  - ✓ D. 103 m

Question ID: 97675518139

Q.20 Find out the degree of internal indeterminacy, external indeterminacy and total redundancy from the given rigid joint



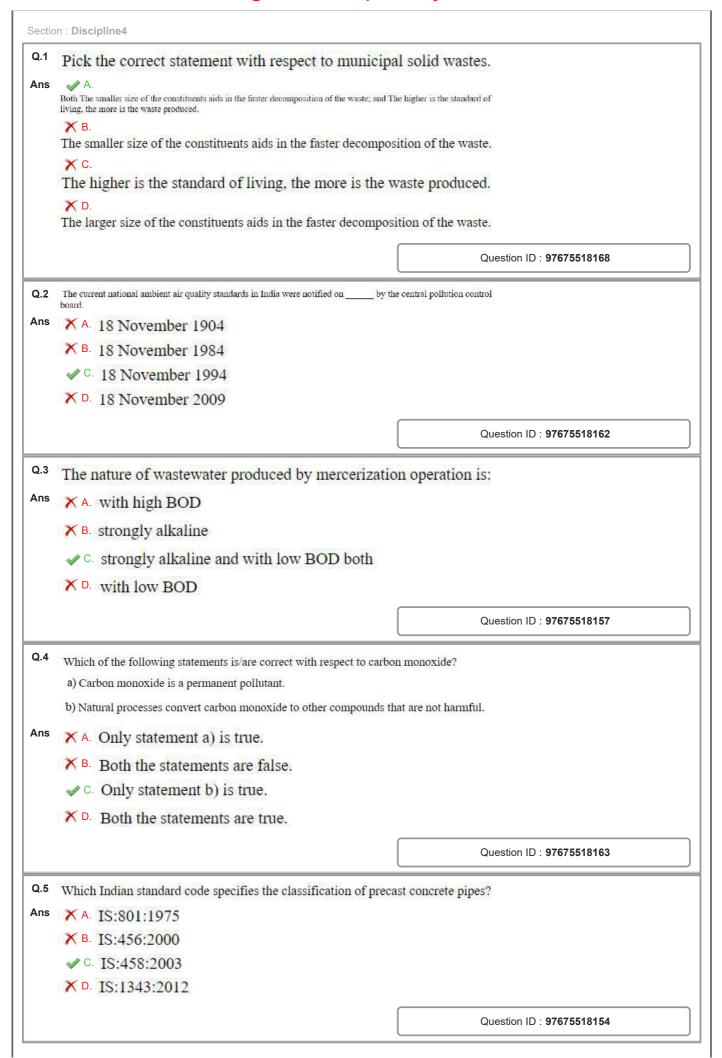
Ans

$$\times$$
 A. I = 8, E = 4, T = 12

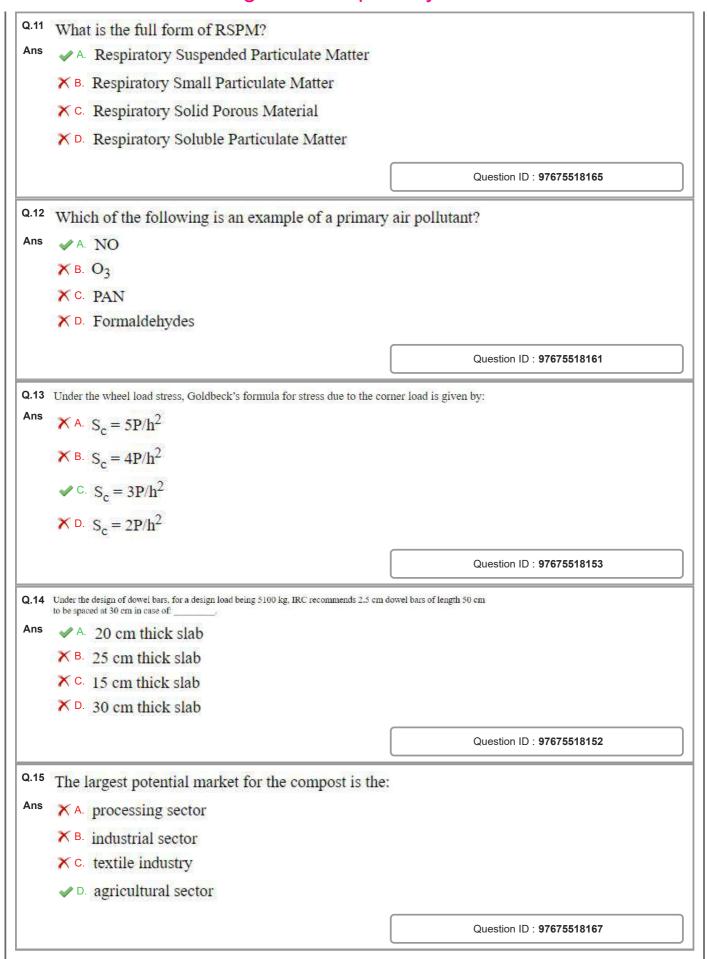
$$✓$$
 B. I = 9, E = 3, T = 12

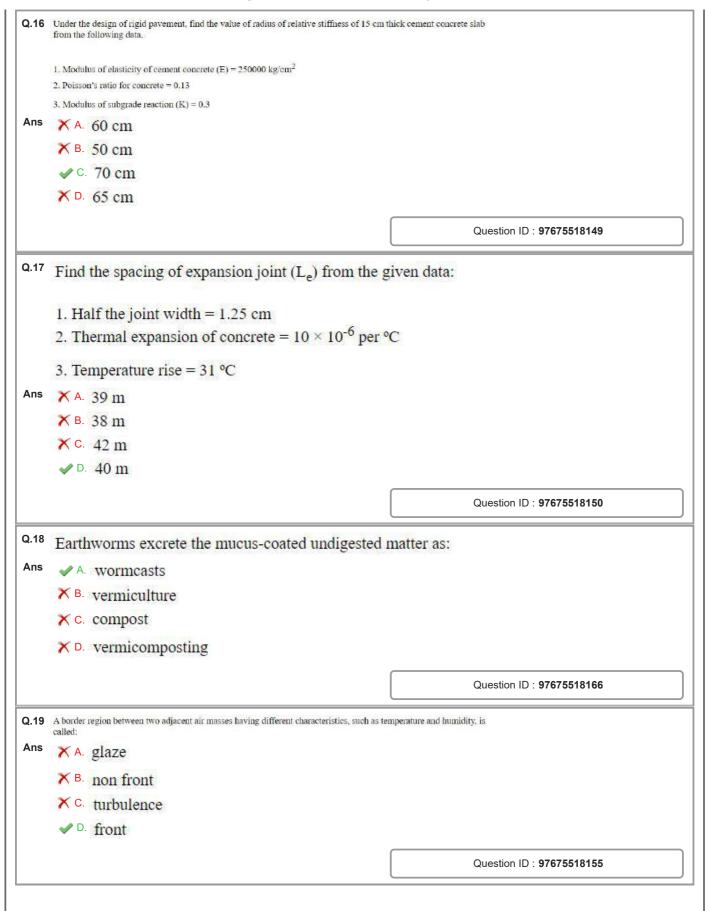
$$\times$$
 c. I = 6, E = 6, T = 12

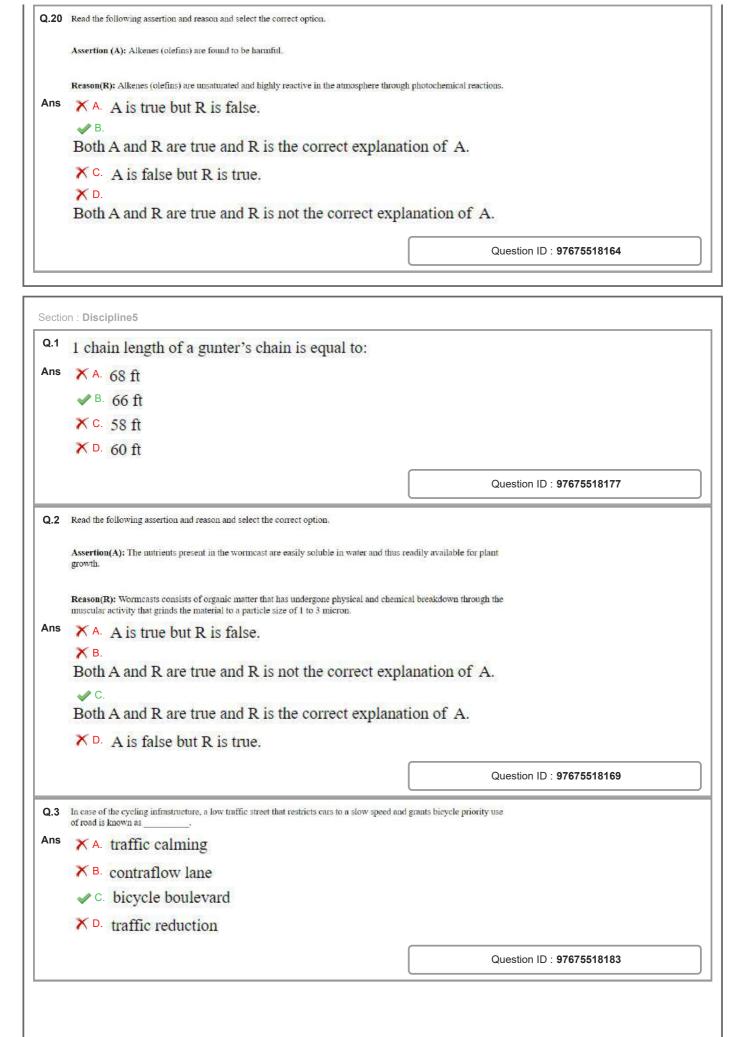
$$\times$$
 D. I = 7, E = 5, T = 12

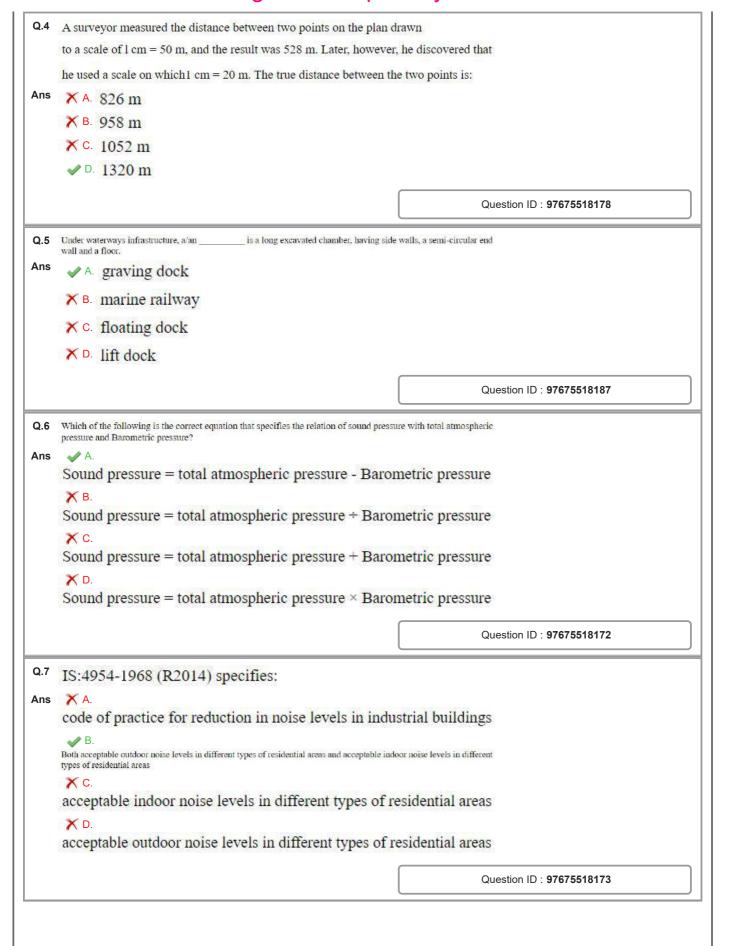


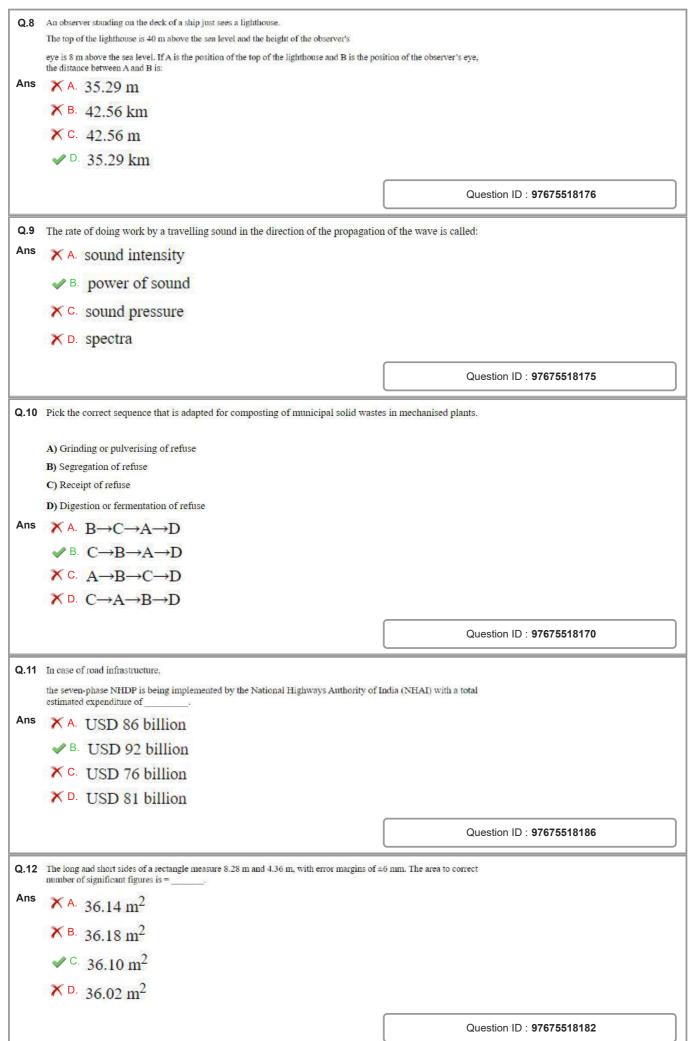
	According to IRC, the maximum spacing between expansion joints should not exceed	Tor rough interior surface.
Ans	X A. 120 m	
	× c. 150 m	
	× D. 110 m	
		0
		Question ID : 97675518151
Q.7	As per IS 2296-1982, which category of surface water can be used as drinking water sor treatment but after disinfection?	arce without conventional
Ans	X A. Category B	
	★ c. Category D	
	X D. Category A	
		Question ID : 97675518156
Q.8	Which of the following statements is/are correct with respe	ct to dye wastes?
Ans	X A. COD: BOD ratio is very low.	
	✗ B. COD: BOD ratio is very high.	
	COD: BOD ratio is very high; and dye wastes not only come from dyes but also fro	m the chemicals used in
	manufacturing industry.	in the chemicals used in
	Dye wastes not only come from dyes but also from the chemicals used in m	anufacturing industry.
		Ougation ID : 07675549459
		Question ID : 97675518158
Q.9	Read the following assertion and reason and select the correct option.	Question ID : 97675518158
Q.9	Read the following assertion and reason and select the correct option.  Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for	
Q.9	Assertion(A): Copper sulfate should not be used for the control of aquatic weeds, except for	algae.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.	algae.
Q.9	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for  Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A.	algae.  kill any fish present in the
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanate	algae.  kill any fish present in the
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanation B.	algae.  kill any fish present in the  ion of A.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanate B. Both A and R are true and R is not the correct explanate A.	algae.  kill any fish present in the  ion of A.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanate B. Both A and R are true and R is not the correct explanate C. A is true but R is false.	algae.  kill any fish present in the  ion of A.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanate B. Both A and R are true and R is not the correct explanate A.	algae.  kill any fish present in the  ion of A.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A. Both A and R are true and R is the correct explanate B. Both A and R are true and R is not the correct explanate C. A is true but R is false.	algae.  kill any fish present in the  ion of A.
	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A.  Both A and R are true and R is the correct explanate B.  Both A and R are true and R is not the correct explanate C. A is true but R is false.  D. A is false but R is true.	algae.  kill any fish present in the  tion of A.  anation of A.  Question ID: 97675518159
Ans	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A.  Both A and R are true and R is the correct explanate B.  Both A and R are true and R is not the correct explanate C. A is true but R is false.  D. A is false but R is true.	algae.  kill any fish present in the  tion of A.  anation of A.  Question ID: 97675518159
Ans	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A.  Both A and R are true and R is the correct explanate B.  Both A and R are true and R is not the correct explanate C. A is true but R is false.  C. A is true but R is false.  D. A is false but R is true.	algae.  kill any fish present in the  tion of A.  anation of A.  Question ID: 97675518159
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Ans	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  ✓ A.  Both A and R are true and R is the correct explanate × B.  Both A and R are true and R is not the correct explanate × C. A is true but R is false.  × D. A is false but R is true.  The compound responsible for causing permanent × A. Mg(HCO3) <sub>2</sub> × B. Both Ca(HCO3) <sub>2</sub> and Mg(HCO3) <sub>2</sub> × C. Ca(HCO3) <sub>2</sub>	algae.  kill any fish present in the  tion of A.  anation of A.  Question ID: 97675518159
Ans	Assertion(A):Copper sulfate should not be used for the control of aquatic weeds, except for Reason(R): The concentration of copper sulfate required to destroy vegetation will assuredly water and probably exceed permissible levels in drinking water.  A.  Both A and R are true and R is the correct explanate B.  Both A and R are true and R is not the correct explanate C. A is true but R is false.  C. A is true but R is false.  D. A is false but R is true.  The compound responsible for causing permanent C.  A. Mg(HCO3) <sub>2</sub> B. Both Ca(HCO3) <sub>2</sub> and Mg(HCO3) <sub>2</sub>	algae.  kill any fish present in the  tion of A.  anation of A.  Question ID: 97675518159











Q.13	A vertical circle that is at the right angles to the meridian and that therefore passes through the east and west points of the horizon is called:	
Ans	X A. The visible horizon	
	× B. co-latitude	
	✓ C. prime vertical	
	➤ D. right ascension	
	Question ID : 97675518180	
Q.14	In case of railway infrastructure, the thickness of ballast for high density broad gauge track is and for medium density track is	
Ans	X A. 350 mm, 300 mm	
	× B. 250 mm, 200 mm	
	➤ D. 200 mm, 150 mm	
	Question ID: 97675518185	
Q.15	For a given frequency of 22 Hz, the second octave band would be from:	
Ans	X A 175 Hz to 350 Hz	
	X B. 88 Hz to 175 Hz	
	× c. 22 Hz to 44 Hz	
	✓ D. 44 Hz to 88 Hz	
	Question ID : 97675518174	
Q.16	On the broad-gauge lines, a station platform with a minimum length of is desirable.	
Ans	× A. 405 m	
	× c. 105 m	
	<b>X</b> D. 205 m	
	Question ID : 97675518184	
Q.17	The height of the peak sound pressure measured above or below zero pressure line is called:	
Ans	× A spectra	
	X B. octave band	
	★ c. frequency of the wave	
	✓ D. amplitude of the wave	
	Question ID : 97675518171	

The horizonta that the reduce	at was set up at P, and the angle of elevation to a vane 4 m above the foot of the sal distance between P and O was known to be 1500 m. What is the reduced level feed level of the instrument axis was 2560.38 m? 687.89 m	
/\ /\2\		
<b>✓</b> B. 2	2834.54 m	
X C. 2	568.56 m	
<b>X</b> D. 2	786.23 m	
		Question ID : 97675518179
Q.19 A fluid in	which the shear stress is directly proportional to the rate of she	ar strain is termed as:
Ans XA. N	Ion-Newtonian fluid	
<b>X</b> B. <b>I</b> €	deal fluid	
× C. R	Real fluid	
<b>✓</b> D. <b>N</b>	Newtonian fluid	
		Question ID : 97675518188
measures 2.68	AB appears to be 10.18 cm on photograph, for which the focal length is 18 cm. 8 cm on a map, which is to a scale of 1/50000. The terrain has an average elevating altitude of the aircraft above the sea level when the photo was taken is:	
Ans 🕢 A. 2	2579.35 m	
<b>X</b> B. 2.	435.69 m	
<b>X</b> C. 2	198.26 m	
<b>X</b> D. 2	896.12 m	
		Question ID : 97675518181
		Question D . 3/0/33/10101



# GOVT. OF NCT OF DELHI Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi – 110092. www.dsssb.delhigovt.nic.in

Test Date	27/09/2021
Test Time	4:30 PM - 6:30 PM
Subject	Assistant Engineer (Civil)

Section: General Ability

Q.1 Select the option pair that shares the same relation between its clusters as shared by the clusters given in question.

IRX : KUB :: ?

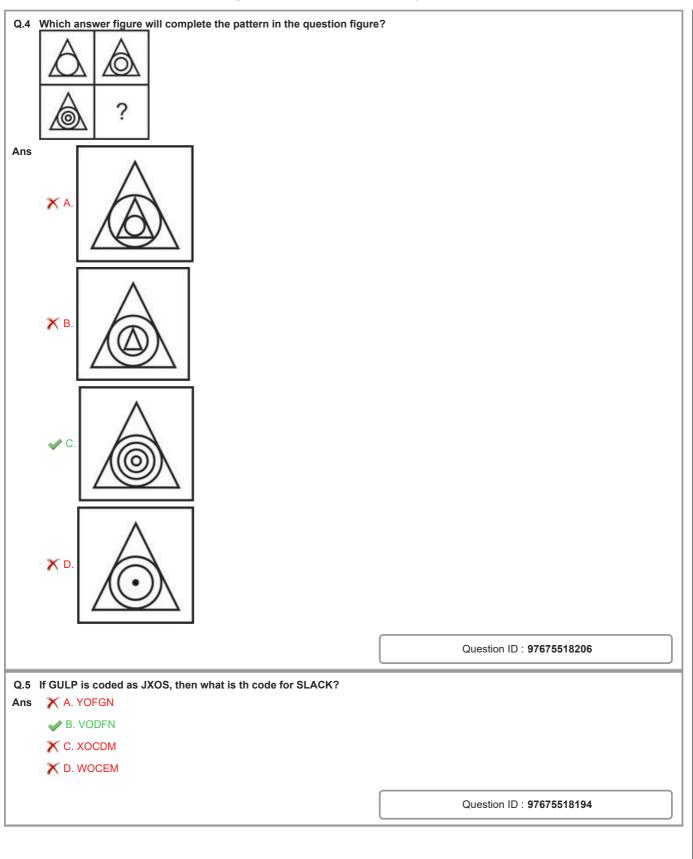
Ans 🗳 A. MUD : OXH

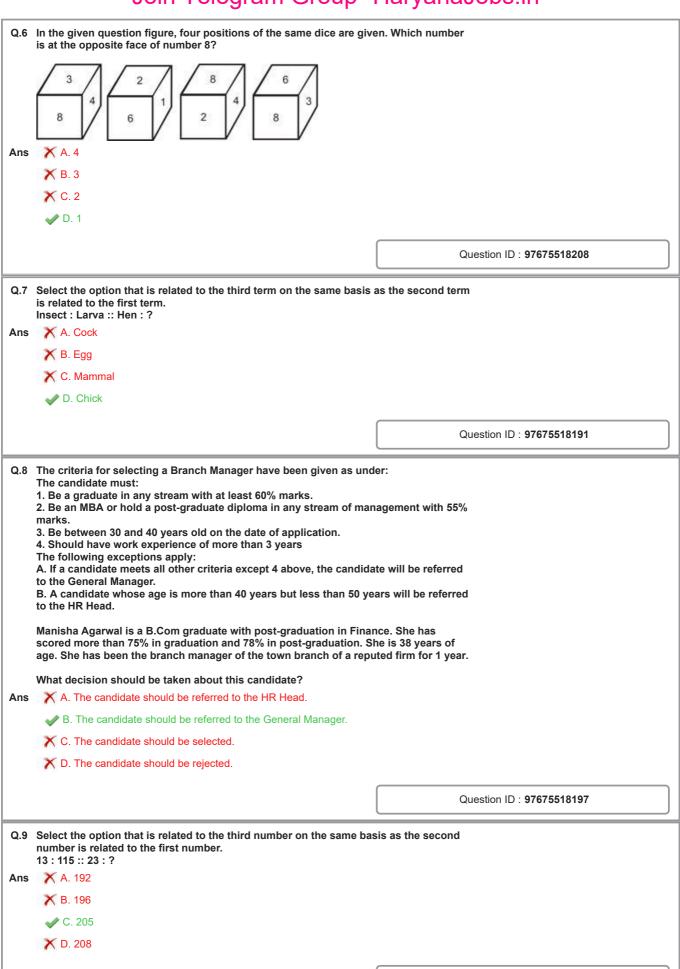
X B. MHZ : KMA

X C. EQW : HVB

X D. NQE : PYH

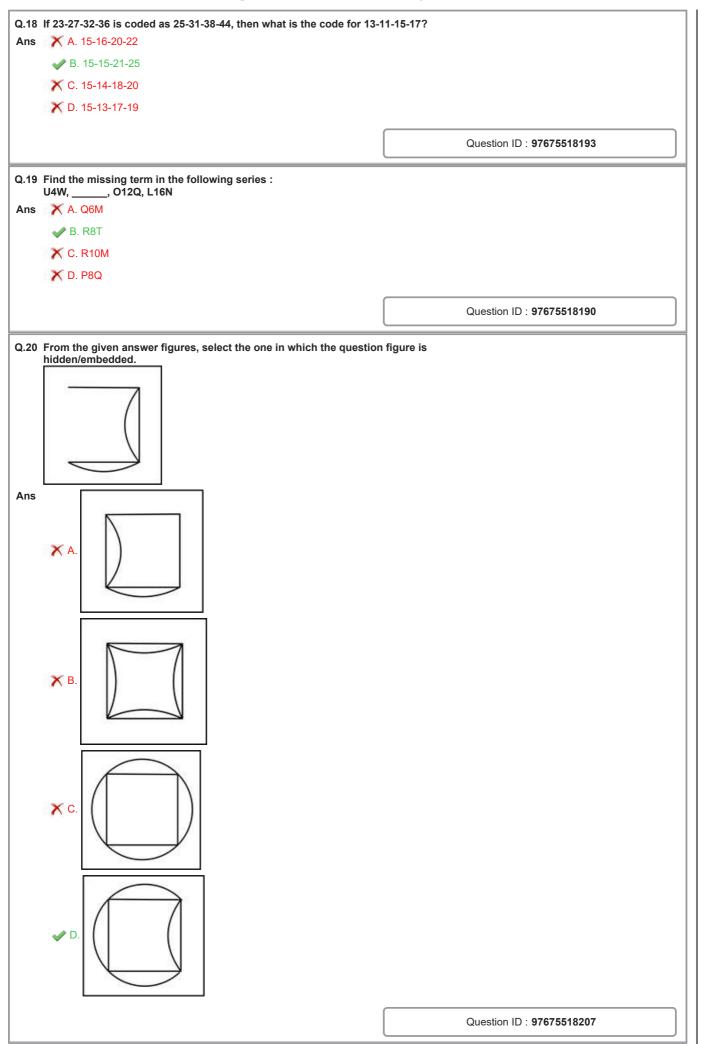
Q.2 Which of the following Venn diagrams best represents the relationship between brothers, sisters and doctors? Ans X C. Question ID: 97675518202 Q.3 If A \$ B means A is the mother of B, A # B means A is the son of B and If A  $\ast$  B means A is the daughter of B, then what does P \$ Q \* R # S mean? Ans X A. S is the grandfather of P X C. S is the brother of P X D. S is the father of P Question ID: 97675518196





		Question ID : 97675518198
	D. Only conclusion I follows	
	C. Only conclusion II follows	
	✓ B. Both I and II follow	
Ans	Conclusion II : All parrots are pigeons.  X A. Neither I nor II follows	
	Conclusion I : Some parrots are carrots.	
	Statement 2 : All carrots are pigeons.	
	Statement 1 : All parrots are carrots.	
	commonly known facts. You have to decide which of the given conc follows from the given statements.	I
Q.14	In the question two statements are given, followed by two conclusion have to consider the statements to be true even if it seems to be at the consideration of the consideration	
		Queenant 15 . 07 07 00 10 100
		Question ID : 97675518195
	✓ D. Kamini	
	X C. Leela	
	X B. Jessica	
Ans	X A. Isha	
	and Leela. Hima is to the right of Isha. Kamini is not next to Leela. Wo f Hina?	/ho is to the right
Q.13	Hina, Isha, Jessica, Kamini and Leela are sitting on a bench. Jessica	
		Question ID : 97675518204
	X D. 5 km north	
	X C. 5 km south	
W119	✓ B. 750 m south	
Ans	walks 0.4 km. Where is Anil now with respect to the position of Kish  X A. 750 m north	ore?
Q.12	Kishore walks 150 m east, then turns north and walks 350 m, then turnd walks 250 m. At the same time, Anil walks 0.4 km east, then turn	ns to his right and
		Question ID : 97675518203
	X D. 3 km east	
	C. 5 km west	
	X B. 5 km east	
Ans	A. 3 km west	
	km, then turns right and walks 6 km. Where is she now with respect position?	to her starting
Q.11	Manisha walks 5 km east, then turns right and walks 6 km, then turn	
		Question ID : 97675518189
	X D. 4,2,3,5,1	
	✓ C. 4,2,1,5,3	
Ans	A. 4,2,1,3,5  X B. 4,1,2,3,5	
Ano	5. PREDIAL X A. 4,2,1,3,5	
	3. PREDICT 4. PRECEPT	
	2. PRECISE	
Q. 10	Arrange the given words in the sequence in which they occur in the 1. PRECODE	dictionary.

Q.15	16, 32, 64, 128, 254	
Ans	X A. 32	
	<b>✓</b> B. 254	
	<b>X</b> C. 128	
	X D. 64	
		Question ID : 97675518200
Q.16	Out of the given options, three are similar in a certain manner. Howe NOT like the other three. Select the option which is different from the	ver, one option is erest.
Ans		
	3 16	
	<b>√</b> A.	
	4 9	
	2	
	<b>★</b> B. 3 4	
	2 9	
	2 12	
	× c. 6 4	
	2 10	
	X D. 5 4	
	100 mm	
		Question ID : 97675518205
		Question ID . 97073310203
Q.17	In the question two statements are given, followed by three conclus	
	You have to consider the statements to be true even if it seems to be commonly known facts. You have to decide which of the given conc	
	follows from the given statements.	, , , , ,
	Statement 1 : All giraffes are jackals.	
	Statement 2 : No jackals are camels.	
	Conclusion I : Some camels are jackals. Conclusion II : All jackals are camels.	
	Conclusion III : Some giraffes are camels.	
Ans	A. None of the three conclusions follow	
	X B. Only conclusion I follows	
	C. Only conclusion II follows	
	X D. Only conclusion III follows	
		Question ID : 97675518199



Section	n : General Awareness	
Q.1	As announced in the Budget 2021, was allocated for	Covid-19 vaccine
Ans	by Indian Government.  A. Rs 35,000 crores	
/ 11.0	X B. Rs 40,000 crores	
	X C. Rs 50,000 crores	
	X D. Rs 20,000 crores	
	D. 13 20,000 dioles	
		Question ID : 97675518211
Q.2	law states that equal volume of all gases under the stemperature and pressure contain equal number of molecules.	ame conditions of
Ans	X A. Bernoulli's	
	✓ B. Avogadro's	
	C. Boyles's	
	X D. Charles's	
		Question ID : 97675518215
Q.3	was considered by the British to be the Father of	Indian Unrest.
Ans	X A. Gopal Krishna Gokhale	
	X B. Dadabhai Naoroji	
	C. Mahatma Gandhi	
	✓ D. Bal Gangadhar Tilak	
		Question ID : 97675518221
Q.4	Aga Khan III and Moshin Mulk were involved in founding the Muslim	League in
Ans	<ul><li>✓ A. 1906</li><li>✗ B. 1912</li></ul>	
	X C. 1908 X D. 1905	
	D. 1905	
		Question ID : 97675518219
Q.5 Ans	Who was the first Indian to win Olympic medals at two consecutive A. Sania Mirza	Olympic Games?
Alls	X B. K.D. Jadhav	
	C. Sushil Kumar	
	X D. Saina Nehwal	
	D. Galila Neliwai	
		Question ID : 97675518228
Q.6 Ans	Which of the following is the first bank to introduce ATM in India?  A. HSBC Bank	
YIIS	X B. HDFC Bank	
	X C. ICICI Bank	
	X D. SBI Bank	
	S. ODI BERIN	
		Question ID : 97675518212

	Makaravilakku festival is associated with which of the following state	tes?
Ans	X A. Tamil Nadu	
	X B. Madhya Pradesh	
	C. Karnataka	
	✓ D. Kerala	
		Question ID : 97675518210
		Question ID . 37073310210
Q.8	Which among the following soils is also known as Usara soils?	
Ans	X A. Forest	
	<b>★</b> B. Arid	
	✓ C. Saline	
	X D. Laterite	
		Question ID : 97675518218
Q.9	Maruni, a famous dance form of Sikkim, is performed during	
Ans	X A. war	
	B. childbirth	
	C. funerals	
	✓ D. festivals	
		Question ID : 97675518209
Q.10	31st Constitutional Amendment increased the number of Lok Sabha	seats from
	to 545.	
Ans	X A. 532	
	X B. 535	
	✓ C. 525	
	X D. 520	
		Question ID : 97675518226
	Who was defeated in the Battle of Chausa in 1539?	
Ans	X A. Akbar	
	X B. Shah Jahan	
	C. Humayun	
	X D. Babur	
		Question ID : 97675518220
		Quadrantia : 07010010220
Q.12	No Limits: The Will to Succeed' is the autobiography of	
Ans	X A. Usain Bolt	
	✓ B. Michael Phelps	
	C. Rafael Nadal	
	X D. Vijay Hazare	
		Question ID : 97675518223
		Question ID . 31013310223

Q. 13	Which of the following is the highest peak in the state of Maharasht 2021?	ra as of August
Ans	✓ A. Kalsubai	
	X B. Anjaneri	
	C. Mount Everest	
	X D. Lohagad	
		0 " 12 222222
		Question ID : 97675518217
Q.14	Part of the Indian Constitution deals with Finance, Property,	Contracts and
Ans	Suits.	
	X B. IX	
	✓ C. XII	
	X D. X	
		Question ID : 97675518225
Q.15	Which among the following will host 2021 Men's ICC T20 World Cup	?
Ans	X A. England	
	X B. Australia	
	C. New Zealand	
	✓ D. UAE and Oman	
		Question ID : 97675518227
Q.16	The headquarters of World Intellectual Property Organization is loca	ated in
Q.16 Ans	The headquarters of World Intellectual Property Organization is loca ————————————————————————————————————	ated in
	·	ated in
	✓ A. Geneva	ated in
	A. Geneva  B. Paris	ated in
	A. Geneva  ** B. Paris  ** C. Vienna	
	A. Geneva  ** B. Paris  ** C. Vienna	Question ID : 97675518222
Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York  is the largest phylum of Animalia which includes instance in the content of the	Question ID : 97675518222
Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York  is the largest phylum of Animalia which includes ins  ** A. Arthropoda	Question ID : 97675518222
Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York   is the largest phylum of Animalia which includes ins  ** A. Arthropoda  ** B. Mollusca	Question ID : 97675518222
Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York  is the largest phylum of Animalia which includes ins  ** A. Arthropoda  ** B. Mollusca  ** C. Echinodermata	Question ID : 97675518222
Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York   is the largest phylum of Animalia which includes ins  ** A. Arthropoda  ** B. Mollusca	Question ID : 97675518222
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Q.17 Ans	A. Geneva  X B. Paris  X C. Vienna  X D. New York  is the largest phylum of Animalia which includes ins  A. Arthropoda  X B. Mollusca  X C. Echinodermata  X D. Platyhelminthes	Question ID : 97675518222 sects.
Q.17 Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York  is the largest phylum of Animalia which includes ins  ** A. Arthropoda  ** B. Mollusca  ** C. Echinodermata  ** D. Platyhelminthes  What is the common name of Hansen's disease?	Question ID : 97675518222 sects.
Q.17 Ans	A. Geneva  X B. Paris  X C. Vienna  X D. New York  is the largest phylum of Animalia which includes ins  A. Arthropoda  X B. Mollusca  X C. Echinodermata  X D. Platyhelminthes	Question ID : 97675518222 sects.
Q.17 Ans	A. Geneva  ** B. Paris  ** C. Vienna  ** D. New York   is the largest phylum of Animalia which includes ins  ** A. Arthropoda  ** B. Mollusca  ** C. Echinodermata  ** D. Platyhelminthes   What is the common name of Hansen's disease?  ** A. Chicken pox	Question ID : 97675518222 sects.
Q.17 Ans	<ul> <li>✓ A. Geneva</li> <li>✓ B. Paris</li> <li>✓ C. Vienna</li> <li>✓ D. New York</li> <li> is the largest phylum of Animalia which includes instead of the</li></ul>	Question ID : 97675518222 sects.
Q.17 Ans	A. Geneva  X B. Paris  X C. Vienna  X D. New York  is the largest phylum of Animalia which includes ins  A. Arthropoda  X B. Mollusca  X C. Echinodermata  X D. Platyhelminthes  What is the common name of Hansen's disease?  X A. Chicken pox  X B. Plague  X C. Rabies	Question ID : 97675518222 sects.

Q.19	Which among the following is the largest tributary of Indus?	
Ans	X A. Sutlej	
	X B. Beas	
	C. Chenab	
	X D. Ravi	
		Question ID : 97675518216
		Question 1D . 37073310210
Q.20	Who won the Best Playback Singer (Male) award in the 65th Filmfa	re Award 2020?
Ans	X A. Nakash Aziz	
	X B. B Praak	
	✓ C. Arijit Singh	
	D. Sachet Tandon	
		Question ID : 97675518224
		Quadrion 15 : \$1616510221
Section	on : Arithmetic Ability	
		Minet is the
Q.1	Three church bells toll at intervals of 15, 20 and 10 seconds respectime interval at which all the three bells toll together?	ctively. What is the
Ans	X A. 2 minute	
	<b>✓</b> B. 1 min	
	C. 3 minute	
	X D. 5 minute	
		Out the ID 070777140000
		Question ID: 97675518233
Q.2	Solve: 12 + 12÷6 - 12% of 100	
Ans	X A. 20	
	<b>★</b> B. 6	
	<b>★</b> C. 12	
	<b>✓</b> D. 2	
		Question ID: 97675518231
		Question ID : 9/6/9916231
Q.3	A cylindrical rice storage box has diameter 50 cm and height 56 cm	
Ans	maximum quantity of rice that can be stored in the container? [100 A. 110 kg	0 cu cm = 1kg]
Alla	X B. 11 kg	
	X C. 100 kg	
	X D. 1100 kg	
		Question ID : 97675518243
Q.4	P and Q stand 300 m apart from each other. They start running tow speeds of 12m/s and 18m/s respectively. At what distance from the do they meet?	
Ans	<b>✓</b> A. 120 m	
	<b>★</b> B. 180 m	
	<b>★</b> C. 100 m	
	X D. 200 m	
		0 11 12 22225
		Question ID : 97675518240

Q.5 Two years ago, the age of Adil and Mustafa was in the ratio 2: 3. Adil is now 10 years old. What will their age ratio be 3 years later?

✓ A. 13:17

X B. 11:14 X C. 11: 15

X D. 13:15

Question ID: 97675518238

Q.6 Which of the following digits are not divisible by 4?

Ans

X A. 432

X B. 680

X C. 456

**D**. 342

Question ID: 97675518230

Q.7 Ram and Mohan can complete a work in 18 days and 24 days respectively. They started working together alternatively starting with Mohan. In how many days the work will be completed?

X A. 18

X B. 25

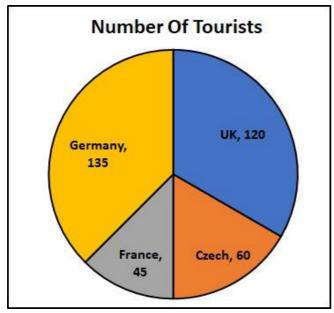
√ C. 21

X D. 20

Question ID: 97675518242

Q.8 The following pie chart shows the distribution of tourists from different nations in India in the year 2017.

The number of tourists from Germany is what percent more than the number of tourists from the nation with the least number of tourists?



Ans X A. 20%

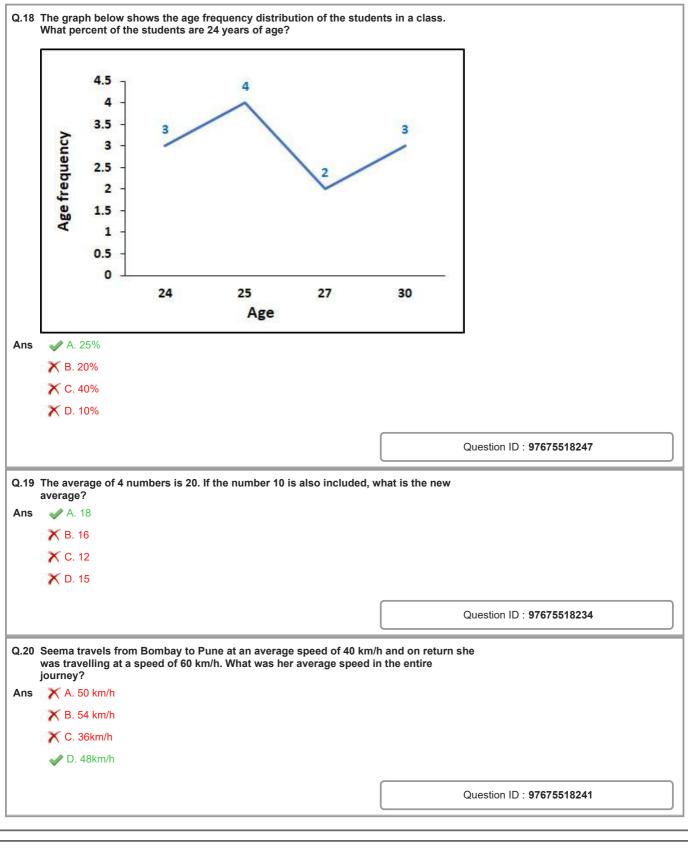
X B. 100%

✓ C. 200%

X D. 2%

Q.9 Simplify: 24 + 2×3 - 16 ÷ 4 + 20% of 200 X A. 24 ✓ B. 66 X C. 84 X D. 72 Question ID: 97675518229 Q.10 The value of three types of gold are in the ratio 2:1:3. If their worth increases by 10%, 20% and 5% in the market respectively, what will be the new ratio of their worth? ✓ A. 44 : 24 : 63 X B. 44: 24: 32 X C. 22:24:63 X D. 22:24:33 Question ID: 97675518239 Q.11 The following graph shows the number of students in a class who enrolled for different elective subjects. If 20% of the students were enrolled in English, how many of the students did not enrol for any of the subjects? 25 20 20 Number Of Students 15 15 12 10 5 0 Math History English French Subjects Ans X A. 8 X B. 10 X C. 12 **✓** D. 9 Question ID: 97675518248 Q.12 The HCF of two numbers is 12. What is the LCM of the two numbers if their product is 864? X A. 108 Ans X B. 48 X C. 60 ✓ D. 72 Question ID: 97675518232

Ans					
	X A. Rs 2100				
	X B. Rs 2400				
	X C. Rs 1800				
	✓ D. Rs 3000				
					Question ID : 97675518237
Q.14	exactly 5 years of more than 5 year	of membership	which is 80% le	ss than the nun	ership. 20 members have nber of members having s of membership?
	X D. 100				
					Question ID : 97675518236
Q.15					rical balls of radius 7 cm
A	A. 5000 cu c		the empty spac	e inside the cyl	inder?
Ans					
	<b>⊘</b> B. 51128 cu				
	X C. 4500 cu c	m			
	X D. 51120 cu				
	X D. 51120 cu				Ougstion ID + 97675549244
	X D. 51120 cu				Question ID : 97675518244
Q.16	The table gives t	cm he data of the p			
Q.16	The table gives t What approxima	cm he data of the p			
Q.16	The table gives t	cm he data of the p	ales is below th		
Q.16	The table gives t What approxima	te percent of m	AGE	ne age of 40?	
Q.16	The table gives t What approxima GENDER	the data of the pte percent of m ≤ 20 < 40	AGE ≤ 40 ≤ 60	> 60	
Q.16	The table gives t What approxima GENDER MEN	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40	> 60 20	
Q.16	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%	the data of the pte percent of m	AGE  ≤ 40 ≤ 60  40  48	> 60 20 25	
Ans	The table gives to What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%	the data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245
Ans	The table gives to What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	ea.
Ans	The table gives to What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245
Ans	The table gives to What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%  John gave all of candles was given	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245
Ans	The table gives t What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%  John gave all of candies was give A. 75%	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245
Ans	The table gives to what approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  X D. 35%  John gave all of candies was give  A. 75%  X B. 57%  X C. 70%	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245
Ans	The table gives to What approxima  GENDER  MEN  WOMEN  TOTAL  X A. 40%  X B. 31%  C. 33%  D. 35%  John gave all of candies was give  A. 75%  B. 57%	he data of the pte percent of m  ≤ 20 < 40  30  40  70	ales is below the AGE  ≤ 40 ≤ 60  40  48  88	> 60 20 25 45	Question ID : 97675518245



Section : General English

Q.1	Fill in the blank with the appropriate word.	
	It struck her that the short length of the broom made the sweepers a down from the waist and retain that posture for hours on end all the leading to spinal pain.	
Ans	✓ A. chronic	
	X B. rogue	
	C. epidemic	
	X D. viral	
		Question ID : 97675518253
		Question ID . 37073310233
Q.2	Select the most appropriate meaning of the given idiom.	
	"That's the last straw"	
Ans	X A. Getting out of options	
	X B. Straw is a metaphor of ideas of life	
	C. Last chance to do something	
	✓ D. The patience has run out	
		Question ID : 97675518262
Q.3	Some parts of a sentence have been jumbled up, and labelled P, Q, I option that gives the correct sequence in which these parts can be a meaningful and grammatically correct sentence.	
	It was P: after 6 hours of chase Q: quite challenging but R: as he had not S: the police caught and arrested him obeyed the law.	
Ans	X A. SPQR	
	✓ B. QPSR	
	X C. PSRQ	
	X D. RQPS	
		Question ID : 97675518255
		Question ID . 97079310299
Q.4	Select the most appropriate 'one word ' for the expression given bel	ow.
	"to completely satisfy yourself or a need, especially with food or ple could not have any more"	asure, so that you
Ans	X A. elucidate	
	X B. nauseate	
	X C. conciliate	
	✓ D. satiate	
		Question ID : 97675518263
Q.5	Select the most appropriate meaning of the given idiom.	
	"Let the cat out of the bag"	
Ans	X A. To be ready for a discussion	
	X B. To have an upset stomach	
	C. To reveal a secret	
	X D. To discuss an important matter	
		0
		Question ID : 97675518261

Q.6	Fill in the blank with the appropriate word.	
	I did have about how the book would be received, part had been a misogynistic controversy over the protagonist.	icularly as there
Ans	X A. coalition	
	B. Yarborough	
	C. agastopia	
	✓ D. apprehensions	
		Question ID : 97675518254
		Question ib . 37073310234
Q.7	Select the most appropriate 'one word ' for the expression given bel	ow.
	A state, period, or place of isolation in which people or animals that elsewhere or been exposed to infectious or contagious disease are	
Ans	X A. Integrate	
	X B. Combine	
	C. Quarantine	
	X D. Turpentine	
		Question ID : 97675518251
Q.8	The sentence below has been divided into three parts. Select the pa that has an error. If the sentence has no error, select the option 'No	
	His commitment on national integrity / in the newly independent cou and uncompromising.	initiy / was total
Ans	X A. No error	
	C. was total and uncompromising.	
	X D. in the newly independent country	
		Question ID : 97675518250
Q.9	The sentence below has been divided into three parts. Select the pa	rt of the sentence
	that has an error. If the sentence has no error, select the option 'No	
Ans	Foreigners, especially / Greeks, began to dominating / the country.  A. the country.	
	X B. Foreigners, especially	
	✓ C. Greeks, began to dominating	
	X D. No error	
		Question ID : 97675518249
Q.10	Select the most appropriate 'one word ' for the expression given bel	ow.
	"to mix up someone's mind or ideas, or to make something difficult	to understand"
Ans	X A. bumbershoots	
	✓ B. bumfuzzle	
	X C. bumble	
	X D. bumpkinish	
		Question ID : 97675518252
		Question ID . 31013310232

Q.11	Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.
	Every adult P: a gang of minors abusing their classmate, it is time to Q: but when we read about a youngster stabbed for his mobile phone or R: generation feels some inadequacy in dealing with S: the next generation, stop and think.
Ans	X A. SQPR
	X B. PQRS
	C. SQRP
	✓ D. RSQP
	Question ID : 97675518256
Q.12	Four words are given, out of which only one word is spelt correctly. Choose the
	correctly spelt word.
Ans	A. MANUVERE
	✓ B. MANOEUVRE
	C. MANOUVER
	➤ D. MANOUVRE
	Question ID : 97675518260
Q.13	Select the word that is closest in meaning (SYNONYM) to the word given below.
	Reconnaissance
Ans	✓ A. Survey
	X B. Coagulation
	X C. Cessation
	X D. Reconcile
	Question ID : 97675518258
0.44	Colored the would then in the averaging (ANITONIVAN) to the would give a helevy
Q.14	Select the word that is the opposite meaning (ANTONYM) to the word given below.
Ano	"Lamentable"
Ans	✓ A. Desirable
	X B. Dependable
	X C. Unpalatable
	D. Detestable
	Question ID : 97675518257
Q.15	Four words are given, out of which only one word is spelt correctly. Choose the
Ans	Correctly spelt word.  X A. PHARAFERNELIA
7113	X B. PARAFERNELIA
	C. PARAPHERNALIA
	D. PARAFERNALIA
	Question ID : 97675518259
	2.333

### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

In 1919 the British made a new law named the Rowlatt Act. Under this law, the government got many powers, including the ability to arrest people and keep them in prisons without a trial. They also obtained the power to stop newspapers from reporting and printing news. The people called this act the Black Act. Indians protested against this law in many places.

The positive impact of reform was seriously undermined in 1919 by the Rowlatt Act, named after the recommendations made the previous year to the Imperial Legislative Council by the Rowlatt Commission, which had been appointed to investigate "seditious conspiracy." The Rowlatt Act, also known as the Black Act, vested the Viceroy's government with extraordinary powers to quell sedition by silencing the press, detaining political activists without trial, and arresting any individuals suspected of sedition or treason without a warrant. In protest, a nationwide cessation of work (hartal) was called, marking the beginning of widespread, although not nationwide, popular discontent.

The agitation reached a peak in Amritsar (Punjab, India). In Amritsar, on 13th April 1919, about 10,000 Indians had assembled to protest against the Rowlatt Act. The British military commander, Brigadier-General Reginald Dyer ordered his troops to fire at the civilians without any warning. The troops fired 1,650 times. Some historians estimate that the troops killed 379 and injured about 1,137 people. This incident came to be known as the Jallianwala Bagh massacre. With this killing of innocent people, the British lost the trust of the Indian people. Congress forced Britishers to investigate massacre of Jallianwala later, a tehkikat committee was made by congress.

SubQuestion No: 16

Q.16 The powers of Rowlatt act had the power to:

A: detain political activists without trial

B: fire at civilians C: silence the press

Ans X A. B and C



X C.

Only A

X D. A, B and C

### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

In 1919 the British made a new law named the Rowlatt Act. Under this law, the government got many powers, including the ability to arrest people and keep them in prisons without a trial. They also obtained the power to stop newspapers from reporting and printing news. The people called this act the Black Act. Indians protested against this law in many places.

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SubQuestion No: 17

Q.17 Read the below mention statements from the passage and choose the correct option.

A: In Jallianwala Bagh Massacre the troops killed 379 and injured about 1,137 people. B: In 1919 the British made a new law named the Rowlatt Act.

Δns

X A. A and B have no relation

X B. A happened before B

C. A happened as a result of B

X D. B was a consequence of A

### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

In 1919 the British made a new law named the Rowlatt Act. Under this law, the government got many powers, including the ability to arrest people and keep them in prisons without a trial. They also obtained the power to stop newspapers from reporting and printing news. The people called this act the Black Act. Indians protested against this law in many places.

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SubQuestion No: 18

Q.18 What is the meaning of seditious as derived from the passage?

Ans X A. Making loud promises and not fulfilling them.

X B. Quietly making decisions that would affect a larger group.

C. May or may not having a reason to respond.

D. Causing people to rebel against the authority of a state.

Question ID: 97675518268

### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

In 1919 the British made a new law named the Rowlatt Act. Under this law, the government got many powers, including the ability to arrest people and keep them in prisons without a trial. They also obtained the power to stop newspapers from reporting and printing news. The people called this act the Black Act. Indians protested against this law in many places.

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SubQuestion No : 19

Q.19 The Rowlatt Act was also called \_\_\_\_\_\_.

Ans X A. The dog's act

B. The black act

X C. The British reform

X D. The full stop

### Comprehension:

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives.

In 1919 the British made a new law named the Rowlatt Act. Under this law, the government got many powers, including the ability to arrest people and keep them in prisons without a trial. They also obtained the power to stop newspapers from reporting and printing news. The people called this act the Black Act. Indians protested against this law in many places.

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SubQuestion No: 20

Q.20 What made the Indians lose trust on the Britishers?

Ans X A. The powers of the government

X B. The Seditious conspiracy

X C. The Rowlatt Act

D. The Jallianwala Bagh Massacre

Question ID: 97675518266

Section: General Hindi

Q.1 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए शब्द के लिए सही बहुब्रीहि समास के विग्रह का विकल्प हो।

Ans

🥓 A. निशा में विचरण करने वाला

🗶 B. निशा और विचरण

🗶 C. विचरण है निशा में

🗶 D. निशा का विचरण

Question ID: 97675518270

Q.2 निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वाक्य के लिए वृत्ति के भेद का सबसे अच्छा विकल्प है। अगर अच्छी नौकरी मिल जाएगी तो मैं नया घर खरीद लुँगा।

💢 A. विध्यर्थ

🗶 В. निश्चयार्थ

🥓 C. संकेतार्थ

🟋 D. संदेहार्थ

Q.3	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए शब् मच्छर	द का तत्सम रूप हो।
Ans	<b>✓</b> A. मशक	
	<b>X</b> B. <b> </b>	
	X C. मक्षिका	
	X D. महार्घ	
		Question ID : 97675518273
0.4	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो सही वाक्य	भेर का विकास की।
Q.4	वह सुबह काम पर गया और शाम को लौट आया।	मद् का विकल्प हा।
Ans	🗙 A. सरल वाक्य	
	<b>৵</b> B. संयुक्त वाक्य	
	🗶 C. मिश्र वाक्य	
	🗙 D. निषेधवाचक वाक्य	
		0 11 10 272774222
		Question ID : 97675518280
Q.5	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुह	ावरे का सही अर्थ
	वाला विकल्प है। हजामत बनाना -	
Ans	X A. मदद करना	
	✗ B. दशा सुधरना	
	✓ C. ठगना	
	🗙 D. हार मान लेना	
		Question ID : 97675518282
Q.6	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो वाक्यां	शों के लिए एक शब्द
-, -	का विकल्प हो।	
Ans	जो कठिनाई से प्राप्त हो	
Alla	🗙 A. निरर्थक	
	<b>★</b> B. दत्तक	
	<ul><li>★ C. अगम्य</li><li>✓ D. दुर्लभ</li></ul>	
	<b>₩</b> D. gan	
		Question ID : 97675518277
		` .
Q.7	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस सही विकल्प का चयन करें जो दिए ग का सही विकल्प हो।	र् शब्द-युग्म के अर्थ
	अणु और अनु	
Ans	🗶 A. कंधा और आग	
	🗶 B. शत्रु और पीछे	
	🗶 C. कण और शीघ्र	
	✔ D. कण और पीछे	
		Question ID : 97675518276
		Q000001112 . 97979910279

Q.8	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए शब का विकल्प नहीं है।	द के समानार्थी शब्द
	बालू -	
Ans	<b>★</b> A. रेत	
	🗶 B. सैकत	
	🗶 C. बालुका	
	✓ D. आसव	
		Oversition ID : 07075540075
		Question ID : 97675518275
Q.9	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दी गई लोक वाला विकल्प है।	ोक्ति का सही अर्थ
	अपना मकान कोट सामान -	
Ans	🗶 A. अपनी वस्तु को ही संभल कर रखना	
	🗶 C. अपना फायदा करके लेना	
	💢 D. दुसरे के भरोसे रहना	
		Question ID : 97675518284
Q.10	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुह वाला विकल्प है। हाथ को हाथ न सूझना -	गवरे का सही अर्थ
Ans	X A. पछताना	
	X B. मांगना	
	✔ C. घना अंधकार होना	
	🗙 D. अपने वश में करना	
		Question ID : 97675518283
Q.11	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो प्रत्यय से बन् विकल्प हो।	ने शब्द का सही
Ans	<b>৵</b> A. ৰিকাক্ত	
	🗙 B. निरापद	
	<b>Х</b> С. प्रसव	
	<b>Х</b> D. समग्र	
		Question ID : 97675518272
Q.12	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो उपसर्ग से ब विकल्प हो।	ने शब्द का सही
Ans	<b>৵</b> A. आराधना	
	X B. तैराक	
	× C. खंडहर	
	🗙 D. चंदन	
		Question ID : 97675518271

Q.13	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो शुद्ध शब्द व	का सही विकल्प है।
Ans	✔ A. सहधर्मिणी	
	🗶 B. शाधार्मीनी	
	🗶 C. स्थार्मिनी	
	🗶 D. सहधार्मीनी	
		Question ID: 97675518274
		Quodalin is i or or or or or
Q.14	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए वा का सबसे अच्छा विकल्प है। अब मैं काफी काम कर चुकी हूँ!	क्य के लिए पक्ष के भेद
Ans	<b>৵</b> A. पूर्णताद्योतक	
	🗶 B. आरंभद्योतक	
	🗶 C. सातप्यबोधक	
	🗶 D. प्रगतिद्योतक	
		Question ID : 97675518279
Q.15	निम्नलिखित प्रश्न में, चार विकल्पों में से, उस विकल्प का चयन करें जो विराम चिह्न विकल्प हो।	युक्त वाक्य का सही
Ans	🗙 A. साधु ने कहा तू चिंता मत कर मेरे साथ चल	
	🥓 B. साधु ने कहा, "तू चिंता मत कर, मेरे साथ चल "	
	🗶 C. साधु ने कहा तू चिंता मत कर, मेरे साथ चल	
	🗶 D. साधु ने कहा, तू चिंता मत कर, मेरे साथ चल	
		Question ID : 97675518281
		Quodalin is i or or or or or
	Comprehension:	
	नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार प्रश्न का सर्वोत्तम उत्तर चुनें। शिक्षा केवल तभी बच्चों के आत्मिक जीवन का एक अंश बनती है, जब कि ज्ञान सक्रिय व से जुड़ा हो। बच्चों से यह आशा नहीं की जा सकती कि पहाड़े या समकोण चतुर्भुज का क्षेनियम उन्हें आकर्षित करेंगे। जब बच्चा यह देखता है कि ज्ञान स्जन के या श्रम के लक्ष्यों तभी वह ज्ञान पाने की इच्छा उनके मन में जागती है। मैं यह चेष्टा करता था कि छोटी आ बच्चों को अपनी होशियारी और कुशाग्र बुद्धि का परिचय देने का अवसर मिले। स्कूल क कार्यभार है- बच्चों को ज्ञान का प्रयोग करना सिखाना। छोटी कक्षाओं में यह खतरा सबसे निरर्थक बोझ बनकर रह जाएगा, क्योंकि इस आयु में बौद्धिक श्रम नई-नई बातें सीखने र	कार्यों के साथ अभिन्न रूप  त्रफल निकालने के की प्राप्ति का साधन है, पु में ही शारीरिक श्रम में   एक सर्वाधिक महत्वपूर्ण   ज्यादा होता है कि ज्ञान
0.16	SubQuestion No : 16	
Q.16 Ans	इनमें से कौन - सा सक्रिय का पर्यायवाची नहीं है? X A. फुर्तीला	
	★ B. क्रियाशील	
	✓ C. निष्क्रिय	
	X D. <del>の</del>	
		Question ID : 97675518289

### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

शिक्षा केवल तभी बच्चों के आत्मिक जीवन का एक अंश बनती है, जब कि ज्ञान सक्रिय कार्यों के साथ अभिन्न रूप से जुड़ा हो। बच्चों से यह आशा नहीं की जा सकती कि पहाड़े या समकोण चतुर्भुज का क्षेत्रफल निकालने के नियम उन्हें आकर्षित करेंगे। जब बच्चा यह देखता है कि ज्ञान सृजन के या श्रम के लक्ष्यों की प्राप्ति का साधन है, तभी वह ज्ञान पाने की इच्छा उनके मन में जागती है। मैं यह चेष्टा करता था कि छोटी आयु में ही शारीरिक श्रम में बच्चों को अपनी होशियारी और कुशाग्र बुद्धि का परिचय देने का अवसर मिले। स्कूल का एक सर्वाधिक महत्वपूर्ण कार्यभार है- बच्चों को ज्ञान का प्रयोग करना सिखाना। छोटी कक्षाओं में यह खतरा सबसे ज्यादा होता है कि ज्ञान निरर्थक बोझ बनकर रह जाएगा, क्योंकि इस आयु में बौद्धिक श्रम नई-नई बातें सीखने से ही सम्बंधित होता है।

SubQuestion No: 17

### Q.17 गद्यांश में लेखक के अनुसार -

Ans X A. शारीरिक श्रम ही एकमात्र महत्वपूर्ण तत्व है

🗙 B. शारीरिक श्रम में तेज बुद्धि की आवश्यकता नहीं होती

✓ C. शारीरिक श्रम में समझदारी और तेज बुद्धि की भी आवश्यकता होती है

🗙 D. शारीरिक श्रम बच्चों को कम होशियार बनाता है

Question ID: 97675518287

### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

शिक्षा केवल तभी बच्चों के आत्मिक जीवन का एक अंश बनती है, जब कि ज्ञान सक्रिय कार्यों के साथ अभिन्न रूप से जुड़ा हो। बच्चों से यह आशा नहीं की जा सकती कि पहाड़े या समकोण चतुर्भुज का क्षेत्रफल निकालने के नियम उन्हें आकर्षित करेंगे। जब बच्चा यह देखता है कि ज्ञान सृजन के या श्रम के लक्ष्यों की प्राप्ति का साधन है, तभी वह ज्ञान पाने की इच्छा उनके मन में जागती है। मैं यह चेष्टा करता था कि छोटी आयु में ही शारीरिक श्रम में बच्चों को अपनी होशियारी और कुशाग्र बुद्धि का परिचय देने का अवसर मिले। स्कूल का एक सर्वाधिक महत्वपूर्ण कार्यभार है- बच्चों को ज्ञान का प्रयोग करना सिखाना। छोटी कक्षाओं में यह खतरा सबसे ज्यादा होता है कि ज्ञान निरर्थक बोझ बनकर रह जाएगा, क्योंकि इस आयु में बौद्धिक श्रम नई-नई बातें सीखने से ही सम्बंधित होता है।

SubQuestion No: 18

### Q.18 गद्यांश के अनुसार ज्ञान कब निरर्थक बोझ बन जाता है?

Ans 🗙 A. जब उसे कक्षाओं तक ही सीमित न कर दिया जाए

\chi C. जब उसे शारीरिक श्रम से न जोड़ा जाए

\chi D. जब उस पर पूर्णतः अधिकार न किया जाए

Question ID: 97675518288

### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढ़ें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

शिक्षा केवल तभी बच्चों के आत्मिक जीवन का एक अंश बनती है, जब कि ज्ञान सक्रिय कार्यों के साथ अभिन्न रूप से जुड़ा हो। बच्चों से यह आशा नहीं की जा सकती कि पहाड़े या समकोण चतुर्भुज का क्षेत्रफल निकालने के नियम उन्हें आकर्षित करेंगे। जब बच्चा यह देखता है कि ज्ञान सृजन के या श्रम के लक्ष्यों की प्राप्ति का साधन है, तभी वह ज्ञान पाने की इच्छा उनके मन में जागती है। मैं यह चेष्टा करता था कि छोटी आयु में ही शारीरिक श्रम में बच्चों को अपनी होशियारी और कुशाग्र बुद्धि का परिचय देने का अवसर मिले। स्कूल का एक सर्वाधिक महत्वपूर्ण कार्यभार है- बच्चों को ज्ञान का प्रयोग करना सिखाना। छोटी कक्षाओं में यह खतरा सबसे ज्यादा होता है कि ज्ञान निरर्थक बोझ बनकर रह जाएगा, क्योंकि इस आयु में बौद्धिक श्रम नई-नई बातें सीखने से ही सम्बंधित होता है।

SubQuestion No: 19

### Q.19 लेखक के अनुसार शिक्षा का अर्थ है?

Ans \chi A. विषय पर अधिकार प्राप्त करना

🛷 B. ज्ञान का प्रयोग करना

🗶 C. श्रम करना

🗶 D. कम ज्ञान प्राप्त करना

### Comprehension:

नीचे दिए गये गद्यांश के बाद 5 प्रश्न दिए गये हैं। इस गद्यांश को ध्यानपूर्वक पढें और चार विकल्पों में से प्रत्येक प्रश्न का सर्वोत्तम उत्तर चुनें।

शिक्षा केवल तभी बच्चों के आत्मिक जीवन का एक अंश बनती है, जब कि ज्ञान सक्रिय कार्यों के साथ अभिन्न रूप से जुड़ा हो। बच्चों से यह आशा नहीं की जा सकती कि पहाड़े या समकोण चतुर्भुज का क्षेत्रफल निकालने के नियम उन्हें आकर्षित करेंगे। जब बच्चा यह देखता है कि ज्ञान सुजन के या श्रम के लक्ष्यों की प्राप्ति का साधन है, तभी वह ज्ञान पाने की इच्छा उनके मन में जागती है। मैं यह चेष्ट्रा करता था कि छोटी आयु में ही शारीरिक श्रम में बच्चों को अपनी होशियारी और कुशाग्र बुद्धि का परिचय देने का अवसर मिले। स्कूल का एक सर्वाधिक महत्वपूर्ण कार्यभार है- बच्चों को ज्ञान का प्रयोग करना सिखाना। छोटी कक्षाओं में यह खतरा सबसे ज्यादा होता है कि ज्ञान निरर्थक बोझ बनकर रह जाएगा, क्योंकि इस आयु में बौद्धिक श्रम नई-नई बातें सीखने से ही सम्बंधित होता है।

SubQuestion No: 20

Q.20 इस अनुच्छेद का कोई उपयुक्त शीर्षक-

Ans 🗙 A. शारीरिक श्रम

🗶 B. बुद्धि की आवश्यकता

🗶 D. निष्क्रिय ज्ञान

Question ID: 97675518290

Section: Discipline1

Q.1 Velocity defect is defined as the:

Product of maximum velocity and local velocity at any point

Difference between maximum velocity and local velocity at any point

X c. Ratio of maximum velocity and local velocity at any point

X D. sum of maximum velocity and local velocity at any point

Question ID: 97675518306

Q.2 A Flat plate 1.5m x 1.5m moves at 50km/hr in stationary air of density 1.15 kg per cubic meter. If the coefficient of lift is 0.75, determine the lift force.

Ans X A. 470.50N

X B. 208.96N

X C. 100.58N

✓ D. 187.20N

Question ID: 97675518310

Q.3 Water is flowing through a horizontal pipe of diameter 200mm at a velocity of 3m/s. A circular solid plate of diameter 150mm is placed in the pipe to obstruct the flow. Find the loss of head due to obstruction in the pipe if coefficient of contraction is 0.62.

Ans

✓ A. 3.311m

X B. 1.125m

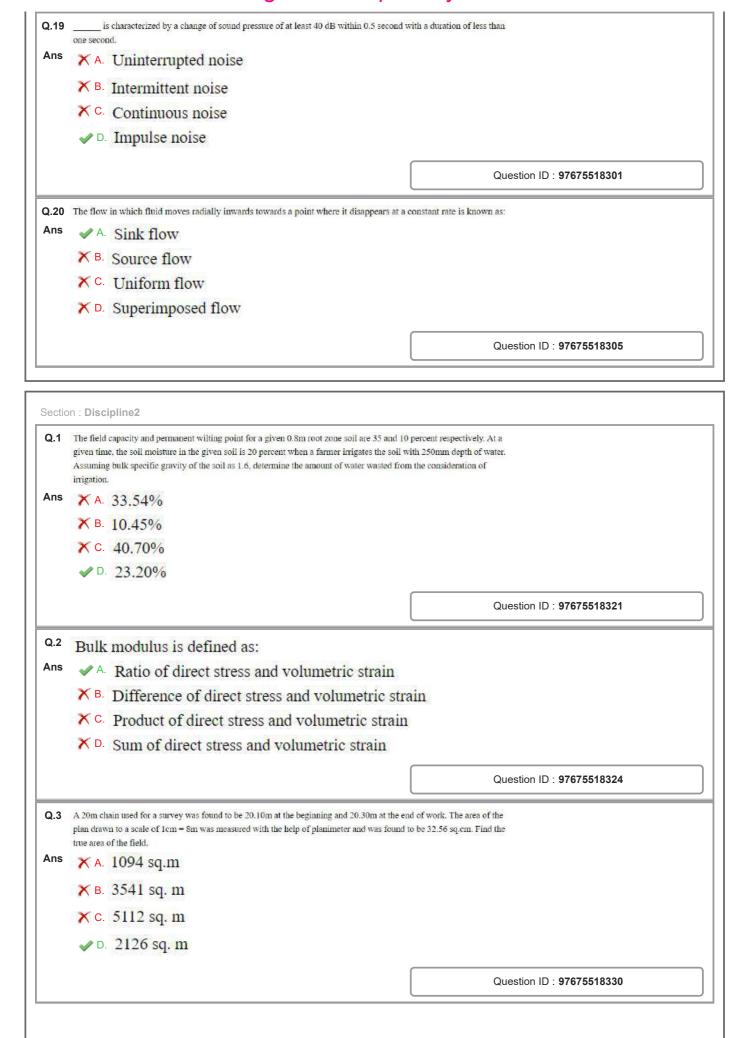
× c. 5.742m

X D. 2.451m

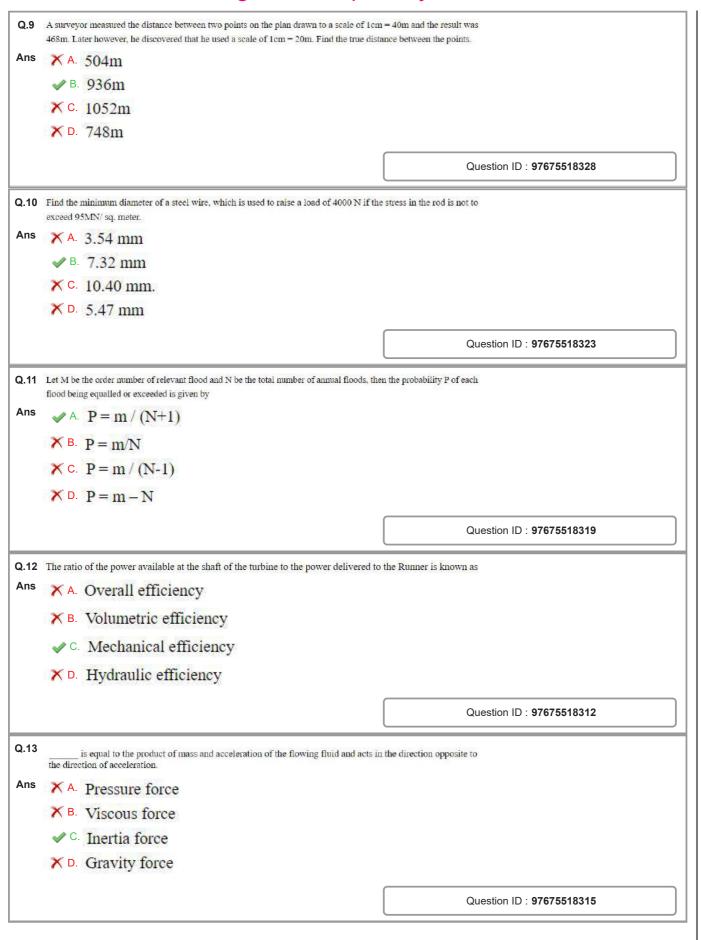
Q.4	are used for removing grit and sand in preliminary treatment of sewage.
Ans	× A. Screenings
	➤ B. Skimming tanks
	× c. Vacuators
	✓ D. Detritus tanks
	Question ID : 97675518294
Q.5	refers to the action of cutting and tearing of solid waste
Ans	X A. Pulverisation
	→ B. Shredding
	× c. Incineration
	★ D. Composting
	Question ID: 97675518302
Q.6	A 25cm diameter pipe carries oil of specific gravity 0.9 at a velocity of 3m/s. At another section the diameter is 20cm. Find the mass rate of flow of oil.
Ans	× A. 145.89kg/s
	× B. 125.48kg/s
	<b>X</b> D. 180.50kg/s
	Question ID: 97675518304
Q.7	Calculate the diameter of a circular sewer laid at a slope of 1 in 400 when it is running half full, and with a velocity of 1.9m/s. (n in Manning's formula = 0.012).
Ans	× A. 3.05m
	× c. 5.20m
	<b>★</b> D. 4.42m
	Question ID : 97675518295
Q.8	Hydraulic gradient line is defined as:
Ans	X A.
	The line representing the sum of pressure head and suction head with respect to some reference line
	✓ B.  The line representing the sum of pressure head and datum head with respect to some reference line
	C.  The line representing the sum of pressure head, datum head and velocity head with respect to some reference line
	D.
	The line representing the sum of pressure head, datum head and suction head with respect to some reference line
	Question ID: 97675518308

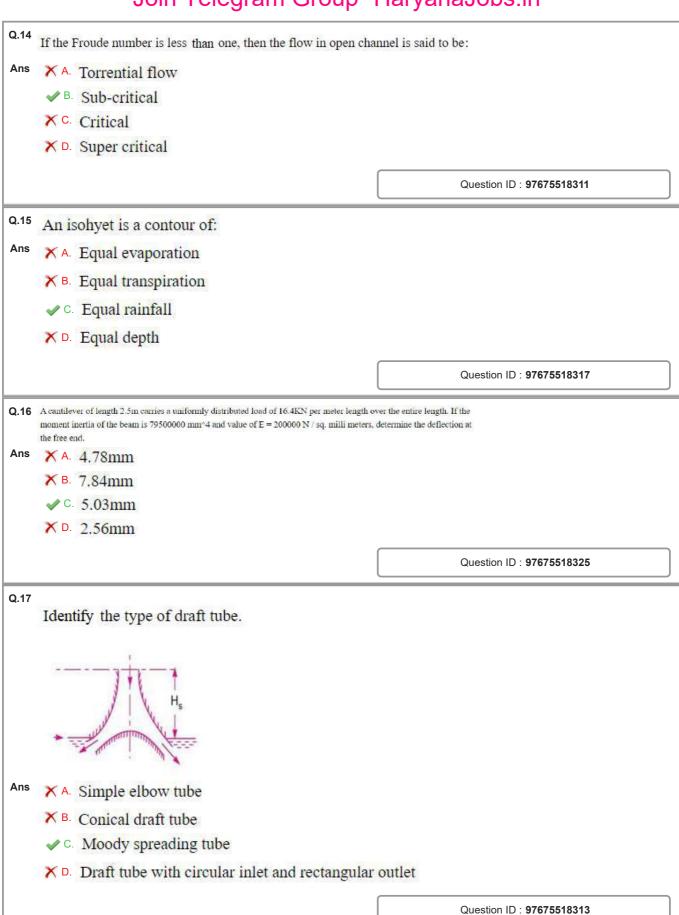
Q.9	As per IS 10500: 2012, the permissible limit of Free residual chlorine in the absence of al water is:	ternate source in drinking
Ans	× A. 0.3mg/l	
	× B. 1.5mg/l	
	<b>×</b> D. 0.2mg/l	
		Question ID : 97675518291
Q.10	As per IS 4954-1968, the acceptable indoor noise level (in dB(A)	) for Restaurants is
Ans	X A. 25-30	
	<b>★</b> B. 35-40	
	✓ C. 50-55	
	X D. 30-35	
		Question ID : 97675518300
Q.11	The distance measured perpendicular to the boundary of solid body, by which the boundar compensate for the reduction in flow rate on account of boundary layer formation is known	A CONTRACTOR OF THE CONTRACTOR
Ans	× A Energy thickness	
	➤ B. Boundary layer thickness	
	× c. Momentum thickness	
	✓ D. Displacement thickness	
	Fig. 1. (2011) 1994 ★ 1990 1997 1999 1997 1999 1997 1999 1999	
		Question ID : 97675518309
Q.12	As per IS 4954-1968, the acceptable indoor noise level (in dB(A	)) for Hospitals is:
Ans	X A. 40-45	
	<b>★</b> B. 25-30	
	<b>★</b> c. 30-35	
	✓ D. 35-40	
		Question ID : 97675518298
Q.13	is a Primary air pollutant.	
Ans	X A. Formaldehyde	
	✓ B. Sulphur dioxide	
	× c. Ozone	
	X □. Sulphuric acid	
		0 11 12 4
		Question ID : 97675518296

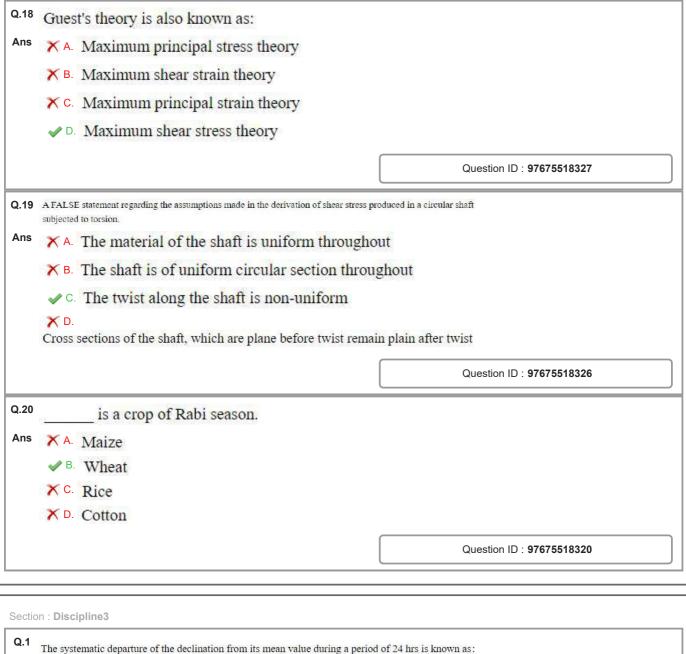
Q.14	are those solids which remain floating in	sewage.
Ans	✓ A. Suspended solids	
	➤ B. Colloidal solids	
	X ○ Settleable solids	
	➤ D. Dissolved solids	
		Question ID : 97675518292
Q.15	A 2% solution of a sewage sample is incubated for 5 days at 20 degree Celsius. The deplete be 4ppm. Determine the BOD of the sewage.	tion of oxygen was found to
Ans	<b>X</b> A. 350ppm	
	<b>×</b> B. 100ppm	
	<b>×</b> □. 400ppm	
		Question ID : 97675518293
		Queensing : 515/56/5255
Q.16	1 Atmospheric pressure is equal to mm of 1	Hg.
Ans	X A. 590	
	<b>★</b> B. 300	
	<b>×</b> c. 450	
	✓ D. 760	
		Question ID : 97675518299
- · · ·		
Q.17	In composting of refuse, the final end product which is a brown coloured odourless innoc as:	uous powdery mass is called
Ans	X A. Leachate	
	<b>X</b> B. Sludge	
	★ c. Solid waste	
	✓ D. Humus	
		Question ID : 97675518303
0.40		14
Q.18	A sound pressure level on reference scale of (in micro Pascal), is usually adopte decibels.	d to express sound revers in
Ans	X A. 2	
	<b>★</b> B. 200	
	<b>×</b> c. 2000	
	<b>✓</b> D. 20	
		Question ID: 97675518297

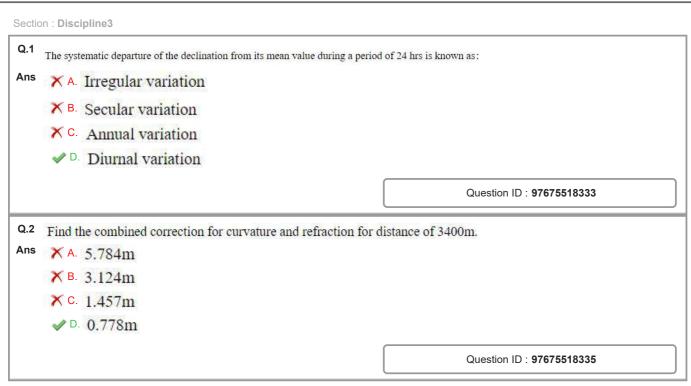


Q.4	Error may rise due to want of perfection of human sight in observing and of touch in manipul as:	ating instruments is known
Ans	X A. Instrumental error	
	X B. Accidental error	
	✓ C. Personal error	
	× D. Natural error	
		Question ID : 97675518329
Q.5	is a Non-recording rain gauge.	
Ans	✗ A. Weighing bucket rain gauge	
	✗ B. Siphon's rain gauge	
	★ c. Tipping bucket rain gauge	
	✓ D. Symon's rain gauge	
		0 11 12 27277424
		Question ID : 97675518316
Q.6	A Lysimeter is used to measure:	
Ans	✓ A. Potential evapotranspiration	
	× B. Runoff	
	➤ c. Precipitation	
	➤ D. Evaporation	
		0 11 12 272774
		Question ID : 97675518322
Q.7	The diameters of an impeller of a centrifugal pump at inlet and outlet are 30cm and 60cm r minimum starting speed of the pump if it works against a head of 30m.	espectively. Determine the
Ans	× A. 704.56 rpm	
	<b>×</b> B. 400.59 rpm	
	<b>×</b> c. 307.52 rpm	
	✓ D. 891.80 rpm	
		O
		Question ID : 97675518314
Q.8	is the direct runoff hydrograph resulting from one centimetre of excess rainfall g catchment area at a constant rate for an effective duration.	enerated uniformly over a
Ans	× A. S-curve	
	➤ B. Hyetograph	
	✓ C. Unit Hydrograph	
	✗ □. Mass curve analysis	
		Ougation ID : 0707FF40040
		Question ID : 97675518318

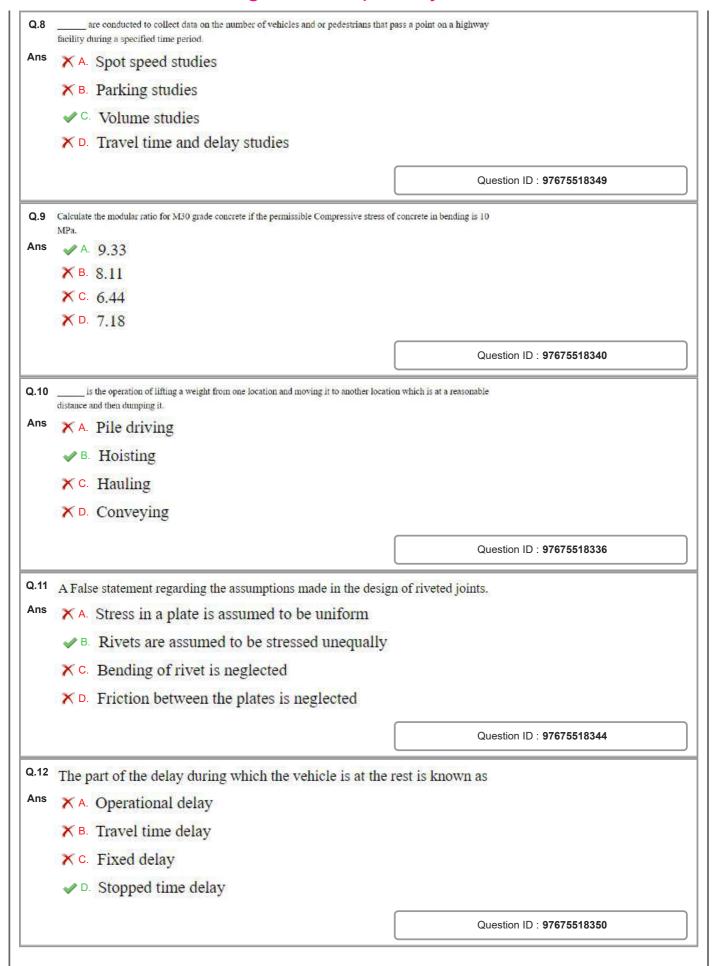


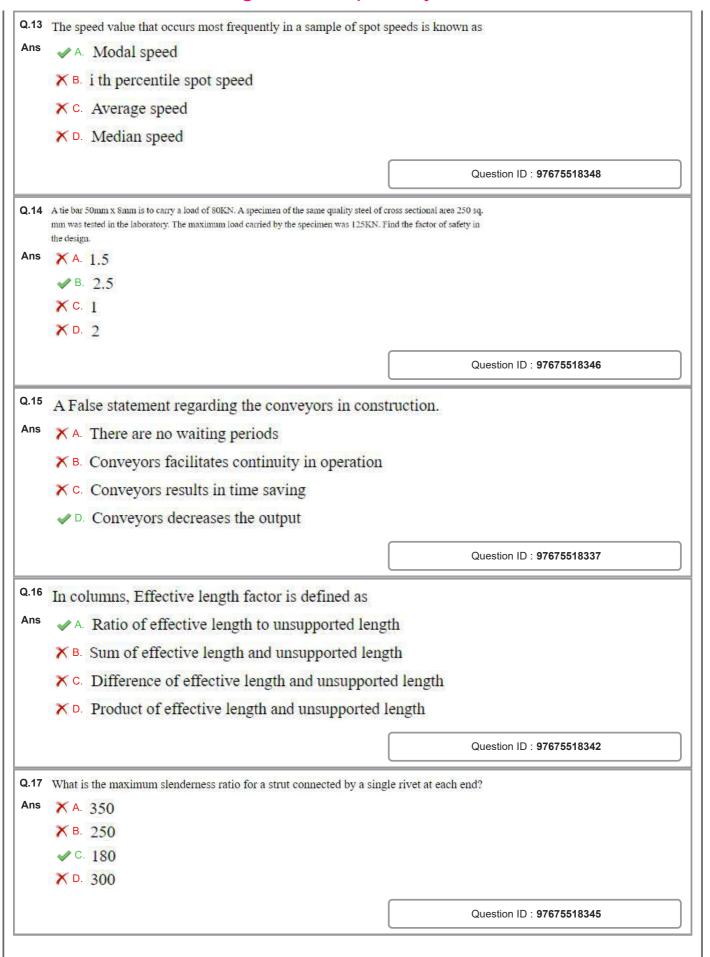


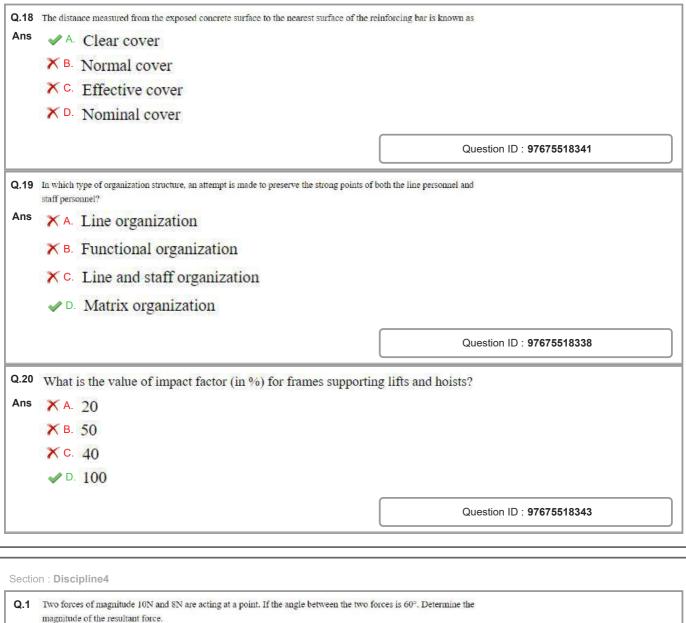




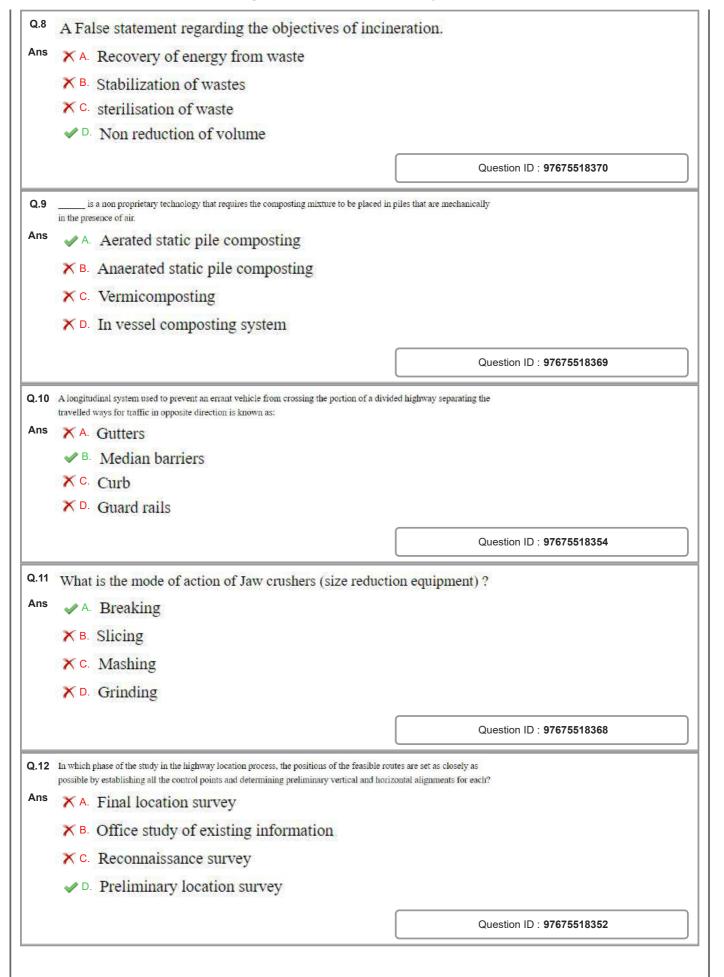
Q.3	Which method is used to locate the contours in case of	f hilly terrain?
Ans	× A. Squares method	
	✓ B. Tacheometric method	
	★ C. Estimation method	
	➤ D. Direct method	
		0 15 17 277771
		Question ID : 97675518334
Q.4	For ultimate limit states, the code specifies a partial safety fa	actor of steel as:
Ans	✓ A. 1.15	
	<b>★</b> B. 2	
	<b>X</b> c. 1	
	<b>X</b> D. 1.5	
		Question ID : 97675518339
Q.5	An offset is laid out 2 degree from its true direction on the field. If the scale of the plottin	g is 10m to 1cm, find the
	maximum length of the offset so that the displacement of the point on the paper may not	
Ans	X A 4.51m	
	<b>×</b> B. 5.77m	
	✓ C. 7.16m	
	<b>X</b> D. 2.74m	
		Question ID : 97675518331
Q.6	As per IS 456: 2000, for prismatic beams of rectangular sections and slabs of uniform thicks the basic span to depth ratio for continuous spans is	ness and spans up-to 10m,
Ans	X A. 10	
	<b>★</b> B. 7	
	<b>×</b> c. 20	
	<b>✓</b> D. 26	
		Question ID : 97675518347
Q.7	If the whole circle bearing (WCB) is between 180 ° and 270 °, then the Redu	iced bearing (RB) is:
Ans	× A. RB = 180° - WCB	
	X B. RB = WCB	
	✓ C. RB = WCB -180°	
	X D. RB = 360° - WCB	
		Question ID : 97675518332



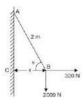




	3 3	
Q.3	The elevation of two points A and B on an aerial photograph are 500ft and 565ft respectively on the photograph are 1:10000 and 1:9870 respectively. Determine the elevation at point C, i 1:8000.	
Ans	✓ A. 1500ft	
	× B. 3000ft	
	× c. 1200ft	
	<b>X</b> D. 800ft	
		O
		Question ID : 97675518353
Q.4	Three forces F1, F2 and F3 are acting on a body as shown in figure, and the body is in equiliforce F3 is 400N. Find the magnitude of force F1.	brium. If the magnitude of
	Torce F3 is 400N. Find the magnitude of torce F1.	
	30° C 330°	
	F <sub>3</sub> = 400 N	
Ans	X A. 250N	
	× B. 150N	
	× c. 100N	
	✓ D. 400N	
		Question ID : 97675518360
Q.5 Ans	Which type of drains are used to relieve pore pressures at slopes of cuts and emban	kments on the highway?
Alla	X A. Longitudinal drains	
	X B. Transverse drains	
	✓ C. Horizontal drains	
	✗ D. Drainage blankets	
		Question ID : 97675518355
Q.6	The distance travelled by a vehicle between the time, the driver observes an object in the vehicle actually comes to rest is longer than the braking distance is known as	sicle's path and the time the
Ans	➤ A. Passing sight distance	
	✗ B. Braking distance	
	× c. Displacement	
	✓ D. Stopping sight distance	
		Question ID : 97675518357
Q.7	Fluidised bed incinerators can be controlled more effect	ively to achieve
Ans	X A. Less consistent	
	➤ B. Higher air emissions	
	✓ C. Less residual ash	
	X D. Lower energy conversion efficiency	
	the configuration of the c	
		Question ID: 97675518365



Q.13 A body weighing 2000N is suspended with a chain AB 2m long. It is pulled by a horizontal force of 320N as shown in figure. Find the force in the chain.



Ans X A. 5074N

X B. 3457N

X C. 1485N

✓ D. 202.5N

Question ID: 97675518361

Q.14 A driver with a perception - reaction time of 2.5sec is driving at 65mi/h when she observes that an accident has blocked the road ahead. Determine the distance the vehicle would move before the driver could activate the brakes. The vehicle will continue to move at 65mi/h during the perception - reaction time of 2.5sec.

Ans X A. 477.58ft

X B. 378.55ft

✓ C. 238.9ft

X D. 500.74ft

Question ID: 97675518356

 $\textbf{Q.15} \quad A \text{ simply supported beam AB of length } 9m \text{ , carries a uniformly distributed load of } 10KN/m \text{ for a distance of } 6m \text{ from } 10KN/m \text{ for a distance of } 6m \text{ from } 10KN/m \text{ for a distance of } 6m \text{ from } 10KN/m \text{ for a distance of } 6m \text{ from } 10KN/m \text{ for a distance } 10KN/m \text{ for a$ the left end. Calculate the reaction at A.



X A. 35KN

X B. 15KN

✓ C. 40KN

X D. 10KN

Question ID: 97675518362

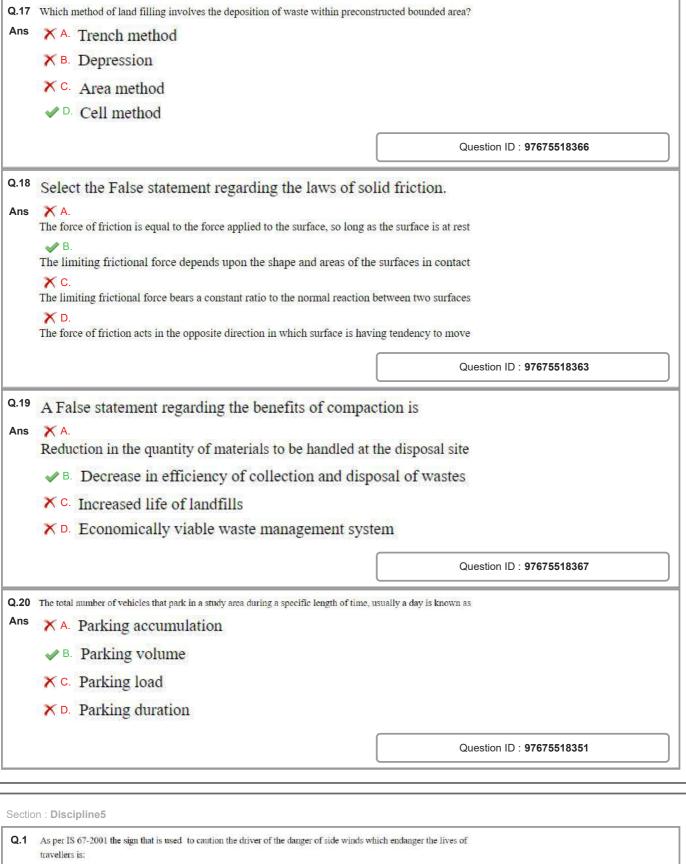
Q.16 The centre of gravity of a parallelogram lies at

✓ A. A point where its diagonals meet each other

X B. Ends

X c. 1/3rd from the base

X D. 2/3rd from the base



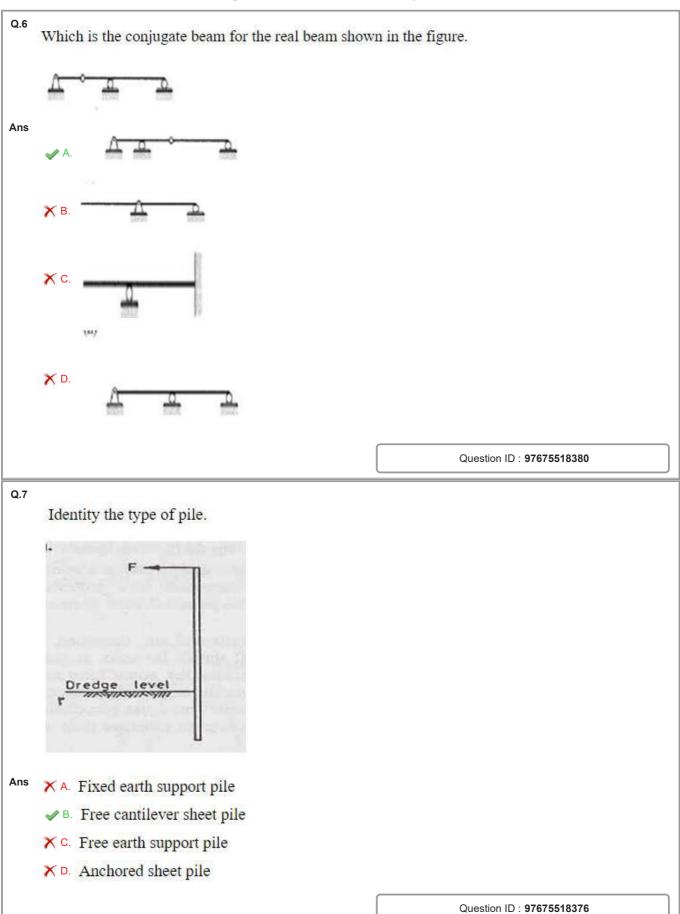
Ans XA. Lane closures

✓ B. Sudden side winds

X C. Series of bends

★ D. Reduced carriageway

Q.2 The minimum allowable factor of safety against sliding in the case of cantilever retaining wall is Ans XA. 2 ✓ B. 1.5 X C. 2.5 X D. 3 Question ID: 97675518377 Q.3 Rigidity factor is defined as Ans X A. Sum of contact pressure and Tyre pressure X B. Product of contact pressure and Tyre pressure X c. Difference between contact pressure and Tyre pressure ✓ D. Ratio of contact pressure and Tyre pressure Question ID: 97675518383 Q.4 A sample of sand has a volume of 1000ml in its natural state. Its minimum volume when compacted is 840ml, When gently poured in a measuring cylinder, its maximum volume is 1370ml. Determine the relative density. Ans X A. 47.52% X B. 82.41% X C. 54.77% ✓ D. 69.81% Question ID: 97675518373 Q.5 A beaker is filled with 1L liquid & weight of the same was found to be 6N. What is the specific weight of the liquid?  $\times$  A. 0.6\*10<sup>-3</sup> N/m<sup>3</sup> X B. 6\*10-3 N/m<sup>3</sup> ✓ C. 6\*10<sup>3</sup> N/m<sup>3</sup> X D. 0.6\*10<sup>3</sup> N/m<sup>3</sup> Question ID: 97675518388



Q.8	Calculate the equivalent radius of resisting section of 20cm slab, given that the radius of 15cm.	contact area wheel load is
Ans	X A. 20.41cm	
	<b>×</b> B. 24.78cm	
	× c. 30.74cm	
	✓ D. 14.07cm	
		Question ID : 97675518384
Q.9	The number of buckets of Pelton wheel is 25m and diameter of pitch is 1.5 m. What is	the diameter of the jet ?
Ans	× A. 0.5m	
	<b>×</b> B. 1m	
	✓ C. 0.075m	
	<b>X</b> D. 2m	
		Question ID : 97675518390
		Question is a visit section
	Estimate the capillary rise in a soil with a void ratio of 0.60 and an effective size of 0.01 $$	mm. Take C = 15 sq. mm
Ans	X A. 1470mm	
	× B. 3114mm	
	× c. 5025mm	
	✓ D. 2500mm	
		Question ID : 97675518374
0 11	Wilch maked for matifement is band on the committee that the cell below it	le su infinite municipa de
Q.11	Which method for mat foundations is based on the assumption that the soil behaves li individual independent elastic springs?	ke an imimite number of
Ans	✓ A Simplified elastic method	
	➤ B. Non linear elastic method	
	× c. Rigid beam method	
	➤ D. Elastic method	
		Question ID : 97675518378
		Question is . Stores issue
Q.12	A False statement regarding the assumptions made for the ar	nalysis of trusses.
Ans	All members are connected only at their ends by frictionless ball and socket	joints in space trusses
	✓ B.  The centroidal axis of each member does not coincide with the line connecting the cent	res of the adjacent joints
	<b>X</b> C.	
	All members are connected only at their ends by frictionles	s in plane trusses
	X D.  All loads and support reactions are applied only at	the joints
	All loads and support reactions are applied only at	the joints
		Question ID : 97675518379

Q.13	In soil stabilization, is a semi hardened or unhardened mixture of water, Portland cem and this mixture has less cement content.	ent and finely crushed soft
Ans	X A. Plastic soil cement	
	✓ B. Cement modified soil	
	× c. Soil cement	
	➤ D. Cement stabilized soil	
		Question ID : 97675518386
		Question is a construction
Q.14	can be used to determine the quantitative is	nfluence lines.
Ans	★ A Flexibility matrix method	
	★ B. Stiffness method	
	★ c. Maxwell's reciprocal theorem	
	✓ D. Muller Breslau's principle	
		Question ID : 97675518381
Q.15	A False statement regarding the assumptions of Coulomb	's wedge theory.
Ans	X A The sliding wedge itself acts as a rigid body	
	★ B. The slip surface is a plane surface which passes through the	a heal of the wall
	NEXT TO SECURE A CONTRACT OF THE PROPERTY OF T	AND CONTROL OF THE SECOND CONTROL OF THE SEC
		naoue
	The backfill is dry, cohesionless and homoge	neous
	✓ □. The wall surface is smooth	neous
	HERE AND A CONTROL OF THE CONTROL OF	Question ID : 97675518375
Q.16	HERE AND A CONTROL OF THE CONTROL OF	
Q.16 Ans	✓ D. The wall surface is smooth	
_	✓ D. The wall surface is smooth  is a force method.	
_	✓ D. The wall surface is smooth  is a force method.  X A. Slope deflection method	
_	<ul> <li>✓ D. The wall surface is smooth</li> <li> is a force method.</li> <li>X A. Slope deflection method</li> <li>X B. Kani's method</li> </ul>	
_	<ul> <li>✓ D. The wall surface is smooth</li> <li> is a force method.</li> <li>X A. Slope deflection method</li> <li>X B. Kani's method</li> <li>✓ C. Consistent deformation method</li> </ul>	
Ans	<ul> <li>✓ D. The wall surface is smooth</li> <li> is a force method.</li> <li>X A. Slope deflection method</li> <li>X B. Kani's method</li> <li>✓ C. Consistent deformation method</li> <li>X D. Stiffness matrix method</li> </ul>	Question ID : 97675518375  Question ID : 97675518382
Ans	<ul> <li>✓ D. The wall surface is smooth</li> <li> is a force method.</li> <li>X A. Slope deflection method</li> <li>X B. Kani's method</li> <li>✓ C. Consistent deformation method</li> <li>X D. Stiffness matrix method</li> <li>The most accurate method for the determination of water content</li> </ul>	Question ID : 97675518375  Question ID : 97675518382
Ans	<ul> <li>✓ D. The wall surface is smooth</li> <li> is a force method.</li> <li>X A. Slope deflection method</li> <li>X B. Kani's method</li> <li>✓ C. Consistent deformation method</li> <li>X D. Stiffness matrix method</li> <li>The most accurate method for the determination of water content</li> <li>✓ A. oven drying method</li> </ul>	Question ID : 97675518375  Question ID : 97675518382
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