Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) Examination, 2020 (Paper-I)

Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ
Exam Dat e	23/03/2021
Exam Time	2:00 PM - 4:00 PM
Subject	Junior Engineering Civil

Section: General Intelligence and Reasoning

- Q.1 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
 - 1. Numerable
 - 2. Nobody
 - 3. Nuclear
 - 4. Nobility
 - 5. Nominative

Ans

- 1. 4, 2, 5, 3, 1
- 2. 4, 5, 2, 3, 1
- **X** 3. 4, 1, 2, 5, 3
- **X** 4. 4, 1, 5, 3, 2

Question ID: 81616110041

Status: Answered

Chosen Option : ${\bf 1}$

Q.2 'Assam' is related to 'Dispur' in the same way as 'Bihar' is related to '_____'.

Ans

- X 1. Amaravati
- X 2. Ranchi
- 3. Patna
- X 4. Itanagar

Question ID: 8161619845

Status : **Answered**

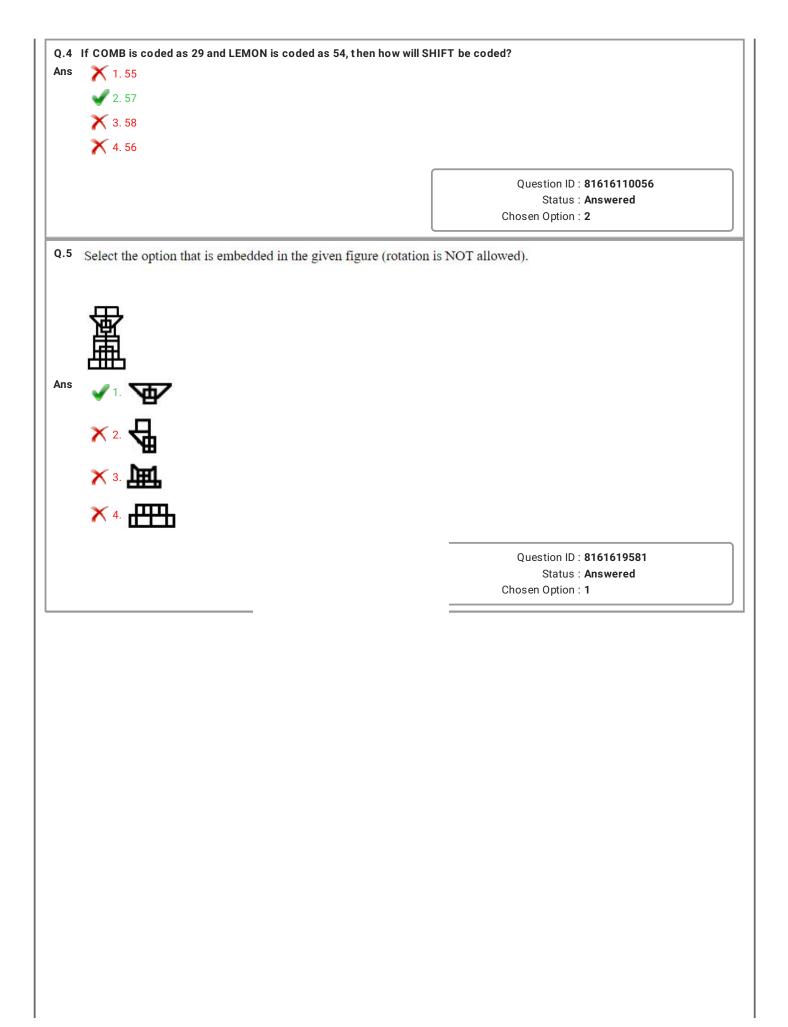
Chosen Option: 3

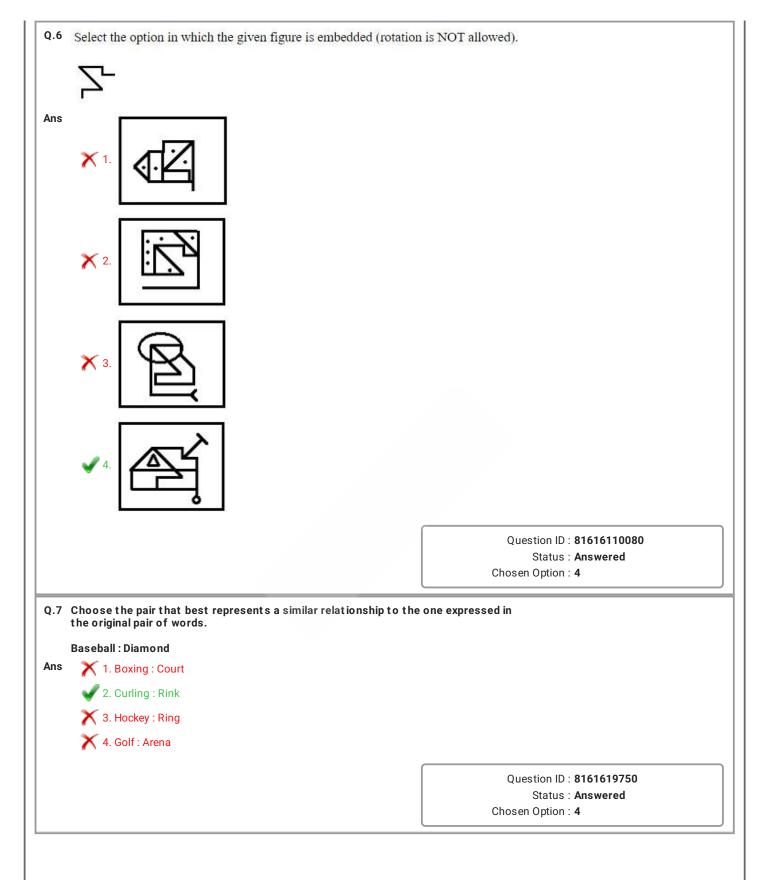
Q.3 Which two signs should be interchanged to make the given equation correct?

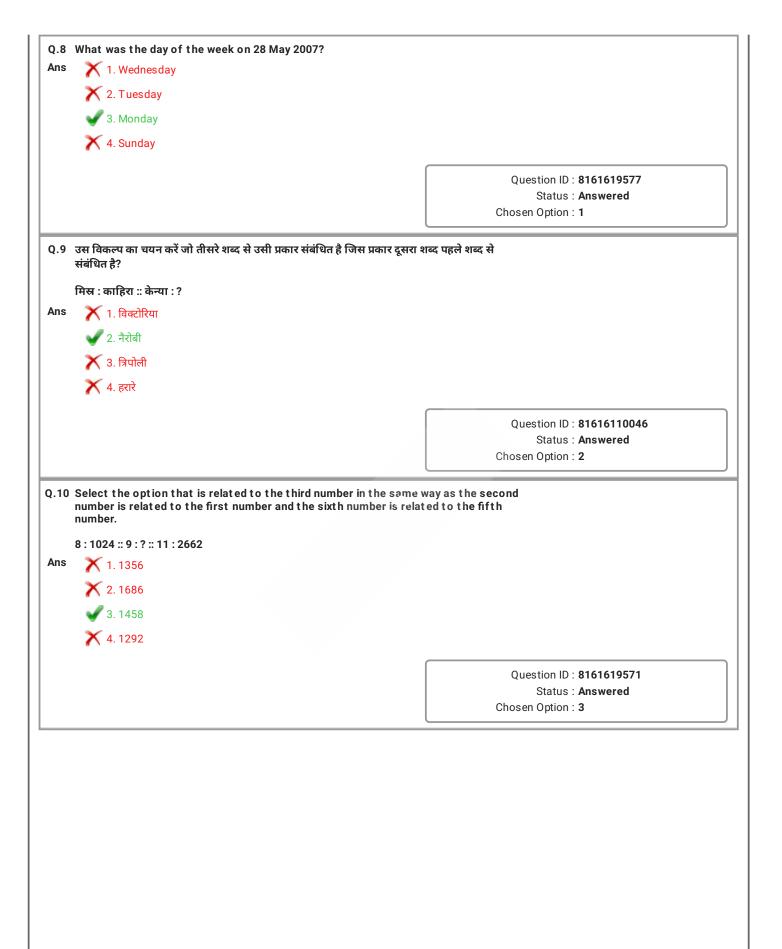
$$1496 \times 8 + 13 - 40 \div 5 = 0$$

Ans

- X 1. and +
- X 2. × and +
- √ 3. × and ÷
- X 4. ÷ and +







Q.11 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

Qrmg5N

Ans

- Ørm g 2 N₁X
- Qrmg5N2V
- Qrmg2Ne×
- Qrwg5N*×

Question ID: 8161619582

Status: Answered

Chosen Option: 2

Q.12 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans









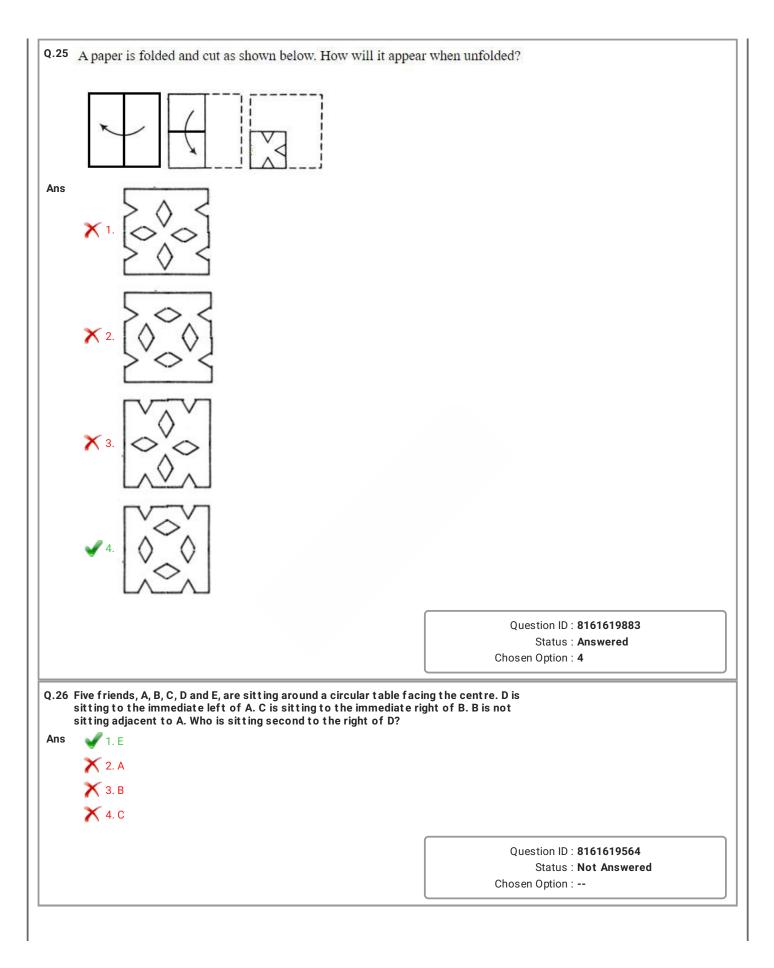
Question ID: 8161619379

Status : Answered

Q.13	एक फोटोग्राफ की ओर संकेत करते हुए, रोहन ने कहा, "वह मेरे दादा वे चित्र में दिख रहे व्यक्ति से क्या संबंध है?	ह इकलौते पुत्र की पुत्री है"। रोहन का
Ans	🗙 1. चाचा	
	🗸 2. માર્ફ	
	🗙 3. चचेरी बहन	
	🗙 ४. भतीजा	
		Question ID : 81616110063 Status : Answered
		Chosen Option : 2
0.14	Colored Alice and in which in walled add a discontinued a sure in A	ha come way on the consent
Q.14	Select the option that is related to the third term in t term is related to the first term.	ne same way as the second
	GARDEN: RFGNJD:: GLUTEN:?	
Ans	X 1. GT QUNJ	
	X 2. UGGNZT	
	✓ 3. UQGNJT	
	🗙 4. GUQTJN	
		Question ID: 81616110053
		Status : Answered
		Chosen Option : 3
Ans	as RMOZDX. How will COMPLEX be written in that lang 1. BMHMGYQ 2. BMHLGZR 3. BOJLHYR 4. BMJLGYQ	gaage:
		Question ID : 8161619554
		Status : Answered Chosen Option : 4
Q.16	Select the option that is related to the fourth number number is related to the second number and the fifth number. 59:13::?:17::99:21 1.49 2.79 3.69 4.39	Question ID : 8161619570
		Status : Not Answered Chosen Option :

Alis	2. PYDEO	
Ans	X 1. PYDEN	
	SUGAR, PUGAR, PYGAR, PYDAR, PYDER, ?	
Q.20	Which letter cluster will replace the question mark	(?) in the following series?
		Chosen Option . 3
		Status : Answered Chosen Option : 3
		Question ID : 8161619551
	★ 4. JTU0	
	√ 3. LT VO	
	X 2. KSRP	
Ans	X 1. LTSD	
	SOAP: WHVZ:: HOME:?	
	term is related to the first term.	
Q.19	Select the option that is related to the third term	in the same way as the second
		Chosen Option : 2
		Status : Answered
		Question ID : 8161619539
	X 4. SDUFAR	
	X 3. SDFURA	
	2. SDUFRA	
Ans	X 1. SUDFAR	
	FRAUDS, SFRAUD, SDFRAU, ?, SDUAFR, SDUARF	
Q.18	Select the letter-cluster from among the given optiquestion mark (?) in the following series.	tions that can replace the
		Chosen Option: 2
		Question ID : 8161619555 Status : Answered
	X 4. MTXOR	
	X 3. ZOPQB	
	√ 2. DUBQN	
	X 1. ESCQP	

Q.21 Select the option that is related to the third term in the same way as the second term is related to the first term. PUBLIC: UPHRCI:: UPWARD:? Ans X 1. PUDHDR 🗙 2. PUGCRD 3. PUCGDR X 4. UPGCDR Question ID: 8161619852 Status: Answered Chosen Option: 3 Q.22 Which number will replace the question mark (?) in the following series? 3, 3, 11, 19, 59, ? Ans **X** 1. 151 X 2. 121 **4**. 115 Question ID: 8161619866 Status: Not Answered Chosen Option: --Q.23 Select the option in which the numbers are related in the same way as are the numbers in the given set. (541, 14, 737) 1. (697, 13, 866) 2. (747, 25, 1423) **X** 3. (651, 16, 940) **X** 4. (832, 8, 887) Question ID: 81616110073 Status: Not Answered Chosen Option: --Q.24 There are two numbers. The first number is 120 more than the second number. The average of the two numbers is 80. If 20 is added to both the numbers, find the ratio of the new numbers. Ans **X** 1.3:1 2.4:1 Question ID: 81616110076 Status: Answered Chosen Option: 2



	F A E B C D	
Ans		
	✓ 2. F	
	X 3. D	
	X 4. E	
		Question ID : 8161619878 Status : Answered
		Chosen Option : 2
.28	Select the option that is related to the third number in the san number is related to the first number and the sixth number is r number.	
	13:170::15:?::17:290	
ns	1. 228	
	× 2. 227	
	3. 226	
	X 4. 229	
		Question ID : 81616110069
		Status : Not Answered
		Chosen Option :
.29	Which letter will replace the question mark (?) in the following	series?
	F, J, D, H, B, F, ?	
ns	√ 1. Z	
	X 2.1X 3. JX 4. Y	
	X 3. J	
	★ 4. Y	
		Question ID : 81616110036 Status : Answered
		Chosen Option : 1

Q.30 Which two numbers and which two signs should be interchanged to make the given equation correct?

$$15 + 7 \times 75 - 45 \div 25 = 147$$

Ans

- 1. 45 and 75; + and ×
- X 2. 15 and 45; × and -
- X 3. 45 and 25; + and ÷
- 🗙 4. 15 and 75; + and ÷

Question ID: 8161619575

Status: Not Answered

Chosen Option: --

Q.31 Pankaj is the son of Rajesh and Sapna, while Deepa is the only granddaughter of Sheela who is the mother of Prakash and Sapna. If Prakash is unmarried and is the brother of the wife of Rajesh, then how is Pankaj related to Deepa?

Ans

- 🚺 1. Maternal uncle
- X 2. Grandfather
- 3. Brother
- X 4. Paternal uncle

Question ID: 81616110062

Status: Not Answered

Chosen Option: --

Q.32 In a certain code language, FALSE is coded as 626121922 and PROTEST is coded as 16181220221920. How will INDUCE be coded in that language?

Ans

- X 1. 914421322
- 2. 181446322
- X 3. 181347322
- X 4. 161442135

Question ID: 8161619557

Status : Answered

Chosen Option : 2

Q.33 Select the correct option that indicates the arrangement of the given words in the

order in which they appear in an English dictionary.

- 1. Distilled
- 2. Distance
- 3. Distinguish
- 4. Dissolve
- 5. Dispense
- 6. Disclose

Ans

- **X** 1. 6, 5, 4, 2, 3, 1
- **2**. 6, 5, 4, 2, 1, 3
- **X** 3. 6, 5, 2, 4, 1, 3
- **X** 4. 5, 4, 6, 2, 1, 3

Question ID: 8161619544

Status : Answered

0.34 Select the number from among the given options that mark (?) in the following series.	can replace the question
61, 66, 73, 84, 97, 114, ?, 156	
Ans 1.133	
× 2. 129	
★ 3. 125	
X 4. 152	
	Question ID : 8161619567 Status : Answered Chosen Option : 1
).35 उस विकल्प का चयन कीजिए जो दिए गए शब्दों का एक तार्किक और उ	—————————————————————————————————————
1. खंगालना 2. इस्त्री करना 3. पानी में सोखना 4. सुखाना 5. धुलना	
Ans	
3. 3, 1, 5, 2, 4	
X 4. 1, 3, 5, 4, 2	
	Question ID : 81616110044 Status : Answered Chosen Option : 2
2.36 Select the option that is correct for the bracketed let inclusion in the given series.	ters with respect to their
F, U, 17, H, O, 13, J, I, 11, (L), E, 7, N, (A), 5	
Ans X 1. The first bracketed letter is correct and the second	bracketed letter is incorrect.
2. Both the bracketed letters are correct.	
3. Both the bracketed letters are incorrect.	
4. The first bracketed letter is incorrect and the secon	nd bracketed letter is correct.
	Question ID : 8161618937 Status : Not Answered

Chosen Option : --

Q.37 Two statements are given, followed by four conclusions numbered I, II, III, IV. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- 1. No rat is a jar.
- 2. All jars are gloves.

Conclusions:

- I. No rat is a glove.
- II. No glove is a rat.
- III. Some gloves are jars.
- IV. All gloves are jars.

Ans

- 1. Both conclusions I and II follow
- - 2. Only conclusion III follows
- 3. Both conclusions I and IV follow
- 4. Only conclusion I follows

Question ID: 8161619859 Status: Answered

Chosen Option: 2

Q.38 Select the option in which the words share the same relationship as that shared by the given pair of words.

Numismatics: Coins

- 1. Anthropology: Humans
- 2. Taxonomy: Fossils
- 3. Semantics: Soils
- X 4. Orography : Eggs

Question ID: 81616110048

Status: Answered

Chosen Option: 1

Q.39 Select the option in which the words share the same relationship as that shared by the given pair of words.

Oncology: Cancer

Ans

🗙 1. Food : Bromatology

🗶 2. Histology : Birds

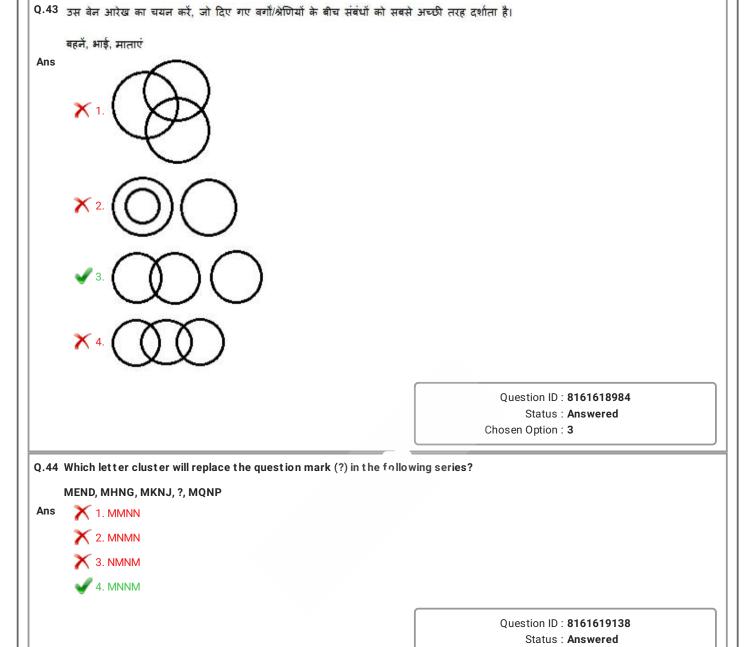
3. Mycology: Fungi

🗙 4. Seismology : Tissues

Question ID: 8161618949

Status: Answered

Q.40 Six players, Aravind, Biswanth, Karun, Dilip, Jayanth and Manohar, are sitting in two rows, three in each row. Jayanth is not at the end of any row. Dilip is second to the left of Manohar. Karun, the neighbour of Jayanth, is sitting diagonally opposite to Dilip. Biswanth is the neighbour of Manohar. After interchanging Dilip with Jayanth, who will be the neighbour(s) of Dilip in the new position? \chi 1. Manohar and Biswanth X 2. Only Aravind X 3. Only Biswanth 4. Karun and Aravind Question ID: 8161618965 Status: Not Answered Chosen Option: --Q.41 उस विकल्प का चयन करें, जो तीसरे शब्द से उसी तरह संबंधित है, जैसे दूसरा शब्द पहले शब्द से संबंधित है। किसान : झोपड़ी :: उन्मादी :? Ans X 1. घुड़साल . 2. बैरक X ३. हवेली 4. मनोचिकित्सालय Question ID: 8161618947 Status: Answered Chosen Option: 4 Q.42 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order. 1. India 2. Gunt ur 3. Asia 4. Bapat la 5. Andhra Pradesh **X** 1. 3, 1, 5, 4, 2 **2**. 3, 1, 5, 2, 4 3. 4, 2, 1, 5, 3 **X** 4. 4, 2, 5, 3, 1 Question ID: 8161619742 Status: Answered Chosen Option: 2



Q.45 Select the set of classes the relationship among which is best illustrated by the given Venn diagram.



Ans

- 1 Fathers, Sons, Males
- ✓ 2. Educated, Doctors, Mothers
- X 3. Illiterates, Engineers, Graduates
- X 4. Mothers, Males, Sons

Question ID: 8161619585 Status: Answered

Chosen Option : 1

Q.46 Which number will replace the question mark (?) in the following series?

8, 12, 19, 31, 50, 80, 123, 183, ?

Ans

- 1. 224
- X 2. 242
- 3, 262
- **X** 4. 220

Question ID: 8161619868 Status: Not Answered

0 ::

Chosen Option: --

Q.47 Manyak travels 20 km westwards and then turns left and travels 12 km. He then turns left again and travels 55 km. How far is Manyak now from the starting point?

Ans

- \chi 1. 36 km
- 🗸 2. 37 km
- X 3. 27 km
- X 4. 23 km

Question ID: 81616110060

Status : Answered

Chosen Option : $\boldsymbol{3}$

Q.48 Select the option in which the numbers are related in the same way as are the numbers in the given set. (7, 14, 49)1. (9, 19, 100) 2. (8, 18, 90) **X** 3. (6, 12, 60) **X** 4. (15, 30, 84) Question ID: 8161619572 Status: Not Answered Chosen Option: --Q.49 Zoya starts driving her car from her home and drives 9 km towards the east. Then she takes a left turn and drives 8 km. She then takes a right turn and drives 6 km to reach her office. What is the shortest distance between her home and her office? Ans X 1. 22 km X 2. 15 km 3. 17 km X 4. 14 km Question ID: 8161619561 Status: Answered Chosen Option: 3 Q.50 Two Statements are given, followed by Two conclusions numpered I and II. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: 1. Some engineers are players. 2. All players are atheists. Conclusions: I. All atheists are players. II. All engineers are atheists. Ans X 1. Both conclusions I and II follow 2. Neither conclusion I nor II follows X 3. Only conclusion II follows X 4. Only conclusion I follows

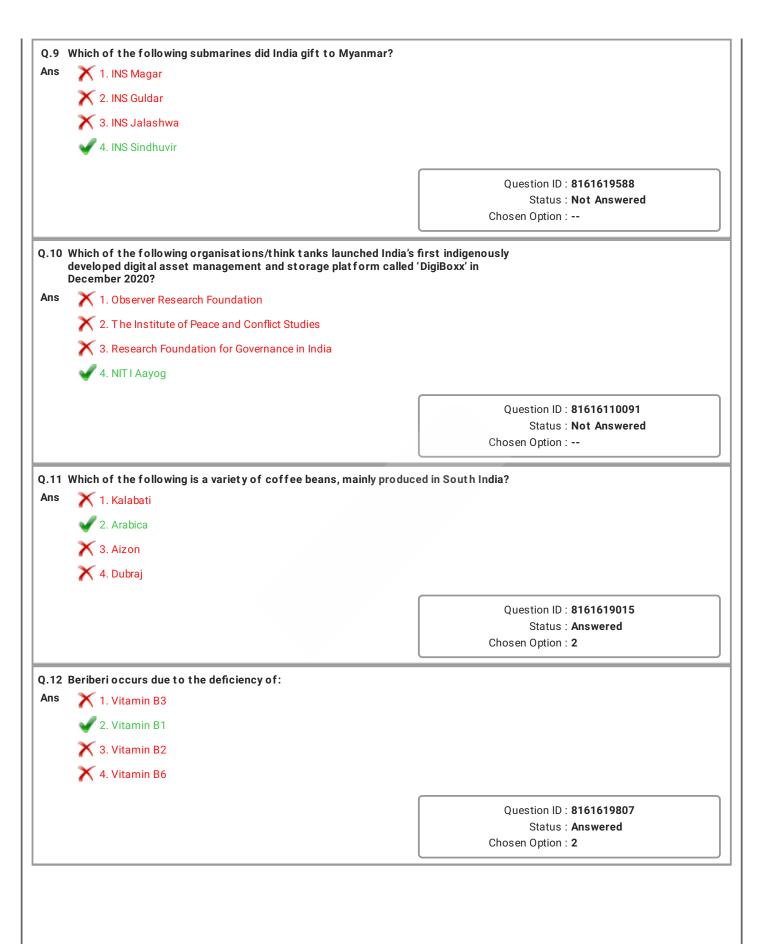
Question ID : 8161618958 Status : Answered

Chosen Option : 2

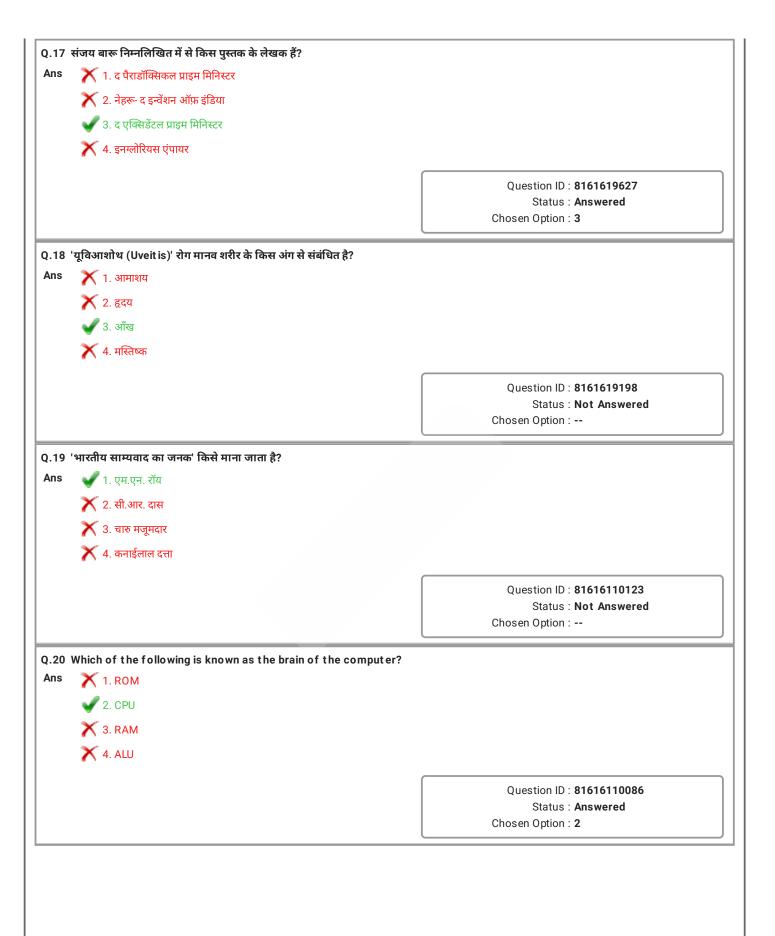
Section : General Awareness

Q.1	.1 In the context of national parks and their locations, which of the following pairs is correct?	
Ans	S 🗸 1. Keibul Lamjao – Manipur	
	🔀 2. Ranthambhor – Maharashtra	
	🗙 3. Silent Valley – Karnataka	
	🔀 4. Gir – Rajasthan	
		0 11 12 044440004
		Question ID : 8161619021 Status : Answered
		Chosen Option : 1
Q.2	Who among the following coined the term 'protoplasm' to define of a cell, the fundamental organizational unit of life?	the fluid substance
Ans	X 1. Theodor Schwann	
	2. J.E Purkinje	
	X 3. Rudolf Ludwig Carl Virchow	
	\chi 4. Matthias Jacob Schleiden	
		2 2 24444242
		Question ID : 8161619408 Status : Answered
		Chosen Option : 2
Q.3 Ans	Deficiency of in diet causes goiter. 1. vitamin D	
	2. calcium	
	3. vitamin C	
	4. iodine	
		Question ID : 8161619811
		Status : Answered
		Chosen Option : 4
Q.4 Ans	Which layer of soil contains humus that makes the soil fertile? 1. Topsoil	
	× 2. Subsoil	
	X 3. Parent rock	
	× 4. Weathered rock material	
		Question ID : 81616110117 Status : Answered
		Chosen Option : 1

Q.5	March is celebrated as World Water Day.	
Ans	1. 22	
	X 2. 20	
	3.24	
	X 4. 26	
		Question ID : 8161619420
		Status : Answered
		Chosen Option : 1
Q.6	Which of the following Articles of the Constitution of India deals of titles?	with the abolition
Ans	X 1. Article 5	
	× 2. Article 43	
	X 3. Article 26	
	4. Article 18	
		Question ID : 8161619932 Status : Answered
		Chosen Option : 4
_		
Q.7	In November 2020, Madhya Pradesh's National Park has been UNESCO Biosphere Reserve.	n declared a
Ans	X 1. Pench	
	🗸 2. Panna	
	🗙 3. Satpura	
	X 4. Mandla Plant Fossils	
		Question ID : 8161619193
		Status : Answered
		Chosen Option : 2
Q.8	Which of the following organisms belongs to the kingdom 'Monera	a'?
Ans	X 1. Bread mould	
	X 2. Mushroom	
	3. Bacteria	
	X 4. Fungi	
		0 11 12 2111111
		Question ID : 8161619897 Status : Answered
		Chosen Option: 3



•	What is the name of the political party founded by Jagjivan merged with the Janata Party?	,
Ans	√ 1. Congress for Democracy	
	🔀 2. Janata Dal	
	X 3. Congress (Jagjivan)	
	X 4. Lok Dal	
		Question ID : 8161619233 Status : Answered
		Chosen Option: 2
0.14	Puga Valley of Ladakh has a/an:	
Ans	X 1. nuclear power plant	
	× 2. oil field	
	X 3. steel plant under SAIL	
	✓ 4. geothermal power plant	
		Question ID : 8161619613
		Status : Not Answered
		Chosen Option :
	एक ऐसी स्थिति है जिसमें शरीर में ऊतक ऑक्सीजन की पर्याप्त अ हैं।	
	1. हाइपोग्लाइसीिमया2. हाइपोक्सिया3. डिमेंशिया	
	1. हाइपोग्लाइसीमिया2. हाइपोक्सिया	
	1. हाइपोग्लाइसीिमया2. हाइपोक्सिया3. डिमेंशिया	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399
	1. हाइपोग्लाइसीिमया2. हाइपोक्सिया3. डिमेंशिया	पूर्ति प्राप्त करने में असफल होते
Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया।	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Ans Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 2. लेबर पार्टी 	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Ans Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 2. लेबर पार्टी 3. लिबरल डेमोक्रेट्स 	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Ans Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 2. लेबर पार्टी 	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Ans Q.16	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 2. लेबर पार्टी 3. लिबरल डेमोक्रेट्स 	पूर्ति प्राप्त करने में असफल होते Question ID : 8161619399 Status : Not Answered Chosen Option :
Ans	 1. हाइपोग्लाइसीमिया 2. हाइपोक्सिया 3. डिमेंशिया 4. ग्लूकोमा 1945 में, ब्रिटेन में की सरकार सत्ता में आई और भारत को स्वतंत्रता किया। 1. कंज़वेंटिव पार्टी 2. लेबर पार्टी 3. लिबरल डेमोक्रेट्स 	Question ID : 8161619399 Status : Not Answered Chosen Option :



Question ID : 8161619597			
X 2. इन्टरमुंख X 3. रोकल्प X 4. निराग्य Question ID : 8161619597 Status : Answered Chosen Option : 3 Q.22 The HIV virus destroys thus weakening the immunity of a person. Ans X 1. erythrocytes X 2. mast cells Y 2. mast cells X 3. lymphocytes Y 4. platelets Question ID : 81616110107 Status : Answered Chosen Option : 3 Q.23 In October 2020, India gifted 41 ambulances and 6 school buses to various government organisations and NGOs working in the field of health and education in Ans X 1. Pakistan X 2. Bangladesh X 3. Bhutan X 3. Bhutan Y 4. Nepal Question ID : 8161618991 Status : Answered Chosen Option : 4 Question ID : 81616110102 Status : Answered	Q.21		
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 ✓ 4. एक प्रकार का वंशानुगत रक्त विकार Question ID : 81616110102 Status : Answered 		🔀 2. एक प्रकार का संक्रामक त्वचा विकार	
Question ID : 81616110102 Status : Answered		🗙 3. एक प्रकार का सुसाध्य कैंसर	
Status : Answered		 4. एक प्रकार का वंशानुगत रक्त विकार 	
			Question ID: 81616110102
Chosen Option : 4			
			Cnosen Option : 4

Q.25 अंतर्राष्ट्रीय कूटनीति के संदर्भ में, क्वाड (Quad) क्या होता है? 🗹 1. यह अमेरिका, जापान, ऑस्ट्रेलिया और भारत के बीच एक अनौपचारिक रणनीतिक मंच है। X 2. यह अमेरिका, जापान, इज़रायल और भारत के बीच एक अनौपचारिक रणनीतिक मंच है। X 3. यह अमेरिका, ताइवान, ऑस्ट्रेलिया और भारत के बीच एक अनौपचारिक रणनीतिक मंच है। X 4. यह अमेरिका, जापान, ब्रिटेन और भारत के बीच एक अनौपचारिक रणनीतिक मंच है। Question ID: 81616110093 Status: Not Answered Chosen Option: --Q.26 2011 की जनगणना के अनुसार, किस राज्य में भारत में सबसे कम अशोधित जन्म दर थी? X 1. अरुणाचल प्रदेश 2. सिक्किम 3. गोवा 🖊 4. केरल Question ID: 81616110121 Status: Answered Chosen Option: 4 Q.27 Which of the following metro services started India's first-ever fully-automated driverless train service in December 2020? Ans X 1. Bengaluru Metro 2. Kolkata Metro 3. Mumbai Metro 4. Delhi Metro Question ID: 8161619788 Status: Answered Chosen Option: 4 Q.28 What was the total number of medals won by Indian boxers at the Cologne Boxing World Cup 2020, held in Cologne, Germany? Ans 1. Nine X 2. Seven **X** 3. Six 🗙 4. Eight Question ID: 81616110135 Status: Not Answered Chosen Option: --

	निम्नलिखित में से किसको दिसंबर 2020 में एसोसिएटेड चैंबर्स ऑफ कॉमर्स एंड इंडस्ट्रें (Assocham) का अध्यक्ष नियुक्त किया गया?	ी ऑफ इंडिया
Ans	✓ 1. विनीत अग्रवाल	
	🗙 2. प्रदीप गोयल	
	🗙 3. अनिल भाटिया	
	🗙 ४. निरंजन हीरानंदानी	
		Question ID : 8161619828 Status : Answered
		Chosen Option : 1
0.30	As of December 2020, who among the following is the Chairman o	f State Bank of
	India?	Totale Bank of
Ans	1. Girish Chandra Chaturvedi	
	2. Abhilash Mishra	
	3. Dinesh Kumar Khara	
	X 4. Deepak Parekh	
		Question ID : 8161619195
		Status : Answered
		Chosen Option : 3
Q.31	बॉडेंटेला पर्टुसिस (Bordetella Pertussis) बैक्टीरिया के कारण निम्नलिखित में से	कौन सा रोग होता है?
Ans	🗙 1. क्षय रोग	
	🗸 2. काली खाँसी	
	🗙 3. प्लेग	
	🗙 ४. कुष्ठ रोग	
		2 2 2444244
		Question ID : 8161619603 Status : Not Answered
		Chosen Option :
	किसी के आहार में संतृप्त वसा के स्थान पर असंतृप्त वसा और कार्बोहाइड्रेट्स का सेव को कम करता है।	न के जोखिम
Ans	🗙 1. मधुमेह	
	🗙 2. इबोला	
	🗙 3. मस्तिष्कावरण शोथ	
	✓ 4. हृदय रोग	
	च. ६५न राम	
		Question ID : 81616110097
		Status : Not Answered Chosen Option :
		5555p

	Which is the basic structural and functional unit of the	nervous system?
Ins	1. Cerebrum	
	× 2. Nephron	
	X 3. Cerebellum	
	4. Neuron	
		Question ID : 8161619814
		Status : Answered
		Chosen Option : 4
.34	Atoms of different elements with different atomic nun mass number are known as	nbers, which have the same
Ans	X 1. isotones	
	2. isotopes	
	√ 3. isobars	
	X 4. isomers	
		Question ID : 8161619210 Status : Answered
		Chosen Option : 3
).35 Ans	Which of the following Harappan sites is located in India	a?
1113	1. Mohenjo Daro	
	2. Daimabad	
	X 3. Ganweriwala	
	🔀 4. Shortugai	
		Question ID : 8161619624
		Status : Answered
		Chosen Option : 1
.36	1191 में सुल्तान मुहम्मद गोरी को हराने वाले पृथ्वीराज तृतीय वं	श के राजा थे।
Ins	🗸 1. चाहमान	
	🗙 2. चेदि	
	🗙 ३. गंगा	
	🗙 ४. गहड़वाल	
		Question ID : 8161619622
		Status : Answered Chosen Option : 1
		555 5 ption . 1

	जब किसी वस्तु की गति ध्वनि की गति से अधिक हो जाती है, तो कहा जाता है कि व यात्रा कर रहा है।	ह की गति से
Ans	🗙 1. पराश्रव्य (अल्ट्रासोनिक)	
	🗙 २. अपश्रव्य (इंफ्रासोनिक)	
	✓ 3. पराध्वनिक (सुपरसोनिक)	
	🗙 ४. अवध्वानिक (सबसोनिक)	
		Question ID : 8161619008
		Status : Answered Chosen Option : 3
Q.38 I	In which year did the 12th Five Year Plan end? 1. 2017	
	× 2. 2015	
	X 3. 2016	
	X 4. 2018	
		Question ID : 8161619594 Status : Answered
		Chosen Option : 1
Q.39 j	Which of the following Articles of the Constitution of India mal joint sitting of both Houses of Parliament?	es provisions for a
Ans	X 1. Article 126	
	× 2. Article 93	
	√ 3. Article 108	
	X 4. Article 122	
		Question ID : 81616110131 Status : Answered
		Chosen Option : 3
Q.40 \Ans	What is the SI unit of time? 1. Second	
	1. Second	
	X 2 Millisgoond	
	2. Millisecond	
	X 3. Hour	
	X 3. Hour	Question ID : 8161619801
	X 3. Hour	Question ID : 8161619801 Status : Answered Chosen Option : 1

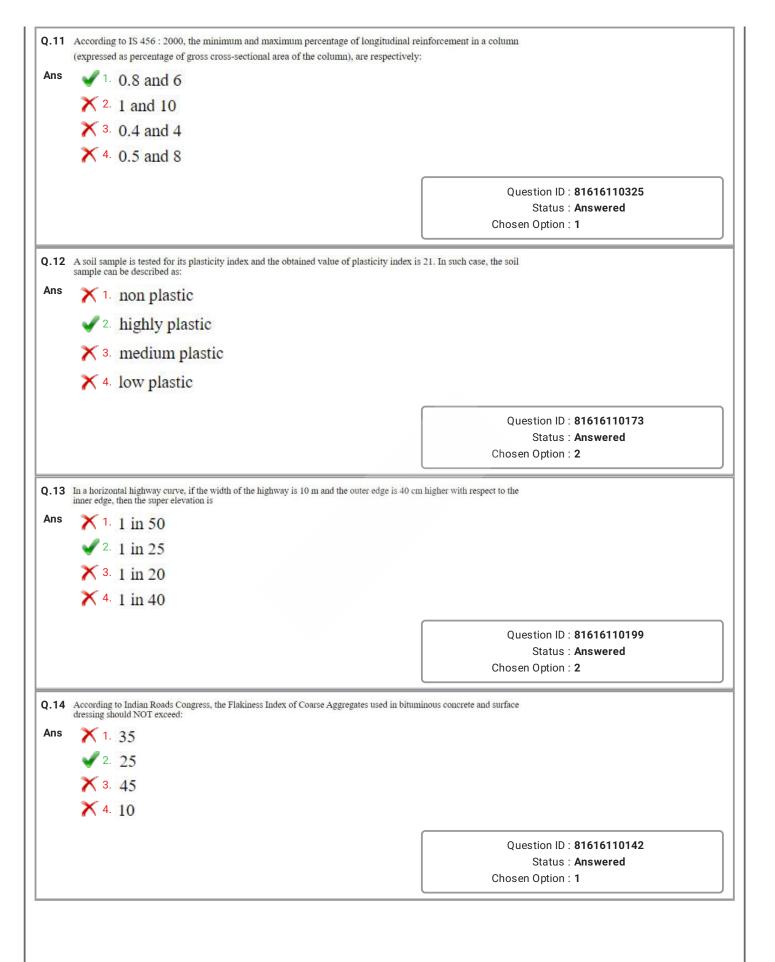
Q.41	1 is an attempt to obtain sensitive information such as username, password and credit card details, etc. for malicious reasons, by posing as a trustworthy source in email.				
Ans	X 1. Doctoring				
	2. Phishing				
	X 3. Cheating				
	X 4. Peeping				
		Question ID : 8161619587			
		Status : Answered Chosen Option : 2			
		·			
Q.42 With how many Indian states/union territories does the newly carved union territory of Ladakh share its borders?					
Ans	X 1. Four				
	√ 2. Two				
	X 3. Three				
	X 4. One				
		Question ID : 81616110116 Status : Not Answered			
		Chosen Option :			
		·			
Q.43	3 For which of the following quantities does the unit of time appear twice in the denominator?				
Ans					
	X 2. Speed				
	3. Acceleration				
	X 4. Displacement				
		Question ID : 8161619212			
		Status : Answered			
		Chosen Option : 3			
Q.44 Ans	Scurvy is primarily caused by the prolonged deficiency of 1. D 2. C 3. B1 4. A	of Vitamin			
	★ 4. A				
		Question ID : 8161619000			
		Status : Answered			
		Chosen Option : 2			

Q.45 सदन के सत्रांत और नए सत्र में इसकी पुनर्वापसी के बीच की अविध को कहा जाता है।					
Ans 🗙 1. कोरम (quorum)					
X 2.	🗙 2. प्रश्नकाल (question hour)				
√ 3.	अवकाश (recess)				
X 4.	शून्यकाल (zero hour)				
		Question ID : 8161619629 Status : Answered			
		Chosen Option : 3			
O 46 Which of	f the following cities is scheduled to host the 2034 Asian	Games as per the			
announc	ement made by the Olympic Council of Asia on 16 Decem				
	Ulaanbaatar				
	Riyadh				
X 3.					
X 4.	Doha				
		Ouestion ID : 81616110134			
		Status : Not Answered			
		Chosen Option :			
X 2. X 3.	Expensive Partial Special Exclusive				
		Question ID : 8161618996 Status : Not Answered			
		Chosen Option :			
Q.48 ऋग्वेद में ए Ans 🗳 1.					
X 2.X 3.X 4.	स्मृति				

Q.49	Q.49 भारतीय संविधान के भाग में अनुच्छेद 300A के तहत संपत्ति के मौलिक अधिकार का उल्लेख किया गया है।			
Ans	✓ 1. XII			
	× 2. X			
	※ 3. IX			
	★ 4. XI			
		Question ID : 8161619431		
		Status : Answered		
		Chosen Option : 3		
Q.50	Which of the following states does NOT fall under the basin of riv	er Tapi?		
Ans	🗙 1. Madhya Pradesh			
	X 2. Maharashtra			
	X 3. Gujarat			
	4. Rajasthan			
		Question ID : 8161619218		
		Status : Answered Chosen Option : 4		
Section	on : General Engineering Civil and Structural			
Q.1	Which of the following is a statically indeterminate structure?			
Ans	★ 1. Simply supported beam			
	× 2. Three hinged arch			
	✓ 3. Two hinged arch			
	X 4. Cantilever beam			
		Question ID : 81616110014 Status : Answered		
		Chosen Option : 3		
Q.2	Which of the following is a disadvantage of plane table survey?			
Ans	★ 1. It replaces compass survey in magnetic areas.			
	× 2. It is simple and cheaper than a theodolite survey.			
	X 3. It is most suitable for small scale maps. X 3. It is most suitable for small scale maps. X 3. It is most suitable for small scale maps.			
	✓ 4. It is essentially a tropical instrument.			
	tomin triulius suuri vaariuguvaasta asteen ₹1. suota lääsitiin. ◆ triuspirin aptiele piisistuste tii tiitusta piisiteiste.			
		Question ID : 8161619969 Status : Not Answered		
		Chosen Option :		

Q.3	A rectangular channel of bed width 2 m is to be laid at a bed slope of 1 in 1000. Find the hydraulic radius of the canal cross-section for the maximum discharge condition? Take Chezy's constant as 50.			
Ans	X 1. 2 m			
	× 2. 0.25 m			
	✓ 3. 0.5 m			
	× 4. 1 m			
		Ouestion ID : 81616110285		
		Status : Answered		
		Chosen Option : 3		
Q.4	The maximum permissible limit of total dissolved solids (TDS) in drinking water in the absence of an alternate source as per IS 10500-2012 is:			
Ans	× 1. 500 mg/l			
	× 2. 200 mg/l			
	× 3. 100 mg/l			
	✓ 4. 2000 mg/l			
		Question ID : 81616110011 Status : Answered		
		Chosen Option : 4		
Q.5	Observed N-value of an SPT test is 21. The N-value after correct	ing for dilatancy is:		
Ans	X 1. 15			
	× 2. 19			
	× 3. 21			
	✓ 4. 18			
		Question ID : 81616110273 Status : Answered		
		Chosen Option : 4		
Q.6	According to IS 2180:1988, what is the minimum bulk density of heavy duty burnt clay bricks?			
Ans	★ 1. 4.5 g/cm ³			
	\checkmark 2. 2.5 g/cm ³			
	\times 3. 7.5 g/cm ³			
	\times 4. 8.5 g/cm ³			
		Question ID : 81616110136		
		Status : Not Answered Chosen Option :		

What is the percentage of alumina in good brick earth? X 1. 45 to 55% Ans X 2. 5 to 10% ✓ 3. 20 to 30% X 4. 1 to 5% Ouestion ID: 81616110137 Status: Answered Chosen Option: 3 Q.8 Select the correct option with regard to the following two statements (H1 and H2) pertaining to the hydrograph of a storm in a catchment. H1: The rising limb of the hydrograph depends on the catchment characteristics only. H2: The recession limb of the hydrograph depends on the storm characteristics and catchment characteristics. 1 Statement H1 is false and statement H2 is true 2. Statement H1 is true and statement H2 is false ✓ 3. Both statements H1 and H2 are false X 4. Both statements H1 and H2 are true Question ID: 81616110294 Status: Not Answered Chosen Option: --The duty of a given crop is 400 hectare/cumecs, when the base period of the crop is 100 days. Delta (Δ) of the crop will Q.9 Ans X 1. 6000 mm ✓ 2. 2160 mm X 3. 2000 mm X 4. 4000 mm Question ID: 81616110193 Status: Answered Chosen Option: 2 Q.10 A soil sample with specific gravity of solids 3 has a mass specific gravity of 2. Assuming the soil to be perfectly dry determine the void ratio. Ans X 1. 0.8 X 2. 1.5 X 3. 1.0 4. 0.5 Ouestion ID: 81616110177 Status: Answered Chosen Option: 4



Q.15 A stone weights 250 N in air and 150 N in water. If the unit weight of water is 10000 N/m³, the volume of the stone is: \times 1. 0.015 m³ \times 2. 0.025 m³ \checkmark 3. 0.01 m³ \times 4. 0.02 m³ Ouestion ID: 8161619980 Status: Answered Chosen Option: 3 Q.16 निम्नलिखित में से कौन सी विधि का उपयोग किसी संपत्ति (इमारत परिसर) के दरनिर्धार्य मूल्य (rateable value) के आकलन के लिए नहीं किया जाता है? Ans 🗡 1. पूंजीगत मूल्य विधि X 2. किराया विधि √ 3. वार्षिकी विधि 🗙 4 लाभ आधारित विधि Question ID: 81616110256 Status: Answered Chosen Option: 4 Q.17 In an orifice the coefficient of contraction is defined as the ratio of: 1. area of jet at vena-contracta to area of orifice × 2. area of orifice to area of jet at vena-contracta X 3. theoretical velocity to area of jet at vena-contracta X 4. velocity of jet at vena-contracta to area of orifice Question ID: 81616110182 Status: Answered Chosen Option: 1 Q.18 For the occurrence of laminar flow through pipes, the value of Reynolds' number shall be less than: Ans X 1. 4000 X 2. 5000 **3**. 2000 X 4. 6000 Question ID: 81616110181 Status: Answered Chosen Option: 3

Q.19 While carrying out civil engineering work, Muster Roll is used for the purpose of: Ans recording of attendance of the permanent staff in the work executing department recording the attendance of daily labourers employed in a work, and the quantity of work done by them payment of permanent staff in the work executing department X 4. payment of the material at site Question ID: 81616110148 Status: Answered Chosen Option: 2 Q.20 Identify the biggest (or longest) of the main survey lines in chain surveying. Ans √ 1. Base line X 2. Tie line X 3. Check line X 4. Cross line Question ID: 81616110161 Status: Answered Chosen Option: 1 Q.21 In riveted connection, the allowance (increase) that is to be provided to the nominal diameter of rivets having diameter greater than 25 mm, so as to work out the gross diameter is: Ans X 1 1.5 mm × 2. 3.0 mm √ 3. 2.0 mm X 4. 3.5 mm Ouestion ID: 81616110230 Status: Answered

Ans **X** 1. Granular sub-base cum drainage layer, Prepared soil subgrade, Granular base course, Bituminous binder and/or surface course **X** 2. Granular base course, Bituminous binder and/or surface course, Prepared soil subgrade, Granular sub-base cum drainage **X** 3. Prepared soil subgrade, Granular base course, Granular sub-base cum drainage layer, Bituminous binder and/or surface Prepared soil subgrade, Granular sub-base cum drainage layer, Granular base course, Bituminous binder and/or surface Question ID: 81616110297 Status: Answered Chosen Option: 4 Q.23 For a structural member, dead load = 20 kN and live load = 12 kN. What will be its design load as per limit state of collapse philosophy? Ans X 1 8 kN ✓ 2. 48 kN X 3. 32 kN X 4. 20 kN Question ID: 81616110224 Status: Answered Chosen Option: 2 Convert the whole circle bearing 336°40' to reduced bearing. Ans ✓ 1. N 23°20'W X 2. S 23°20'W X 3. N 23°20'E X 4. S 23°20'E Question ID: 81616110163 Status: Answered Chosen Option: 1 Q.25 The scale of a map is represented by representative fraction as 1:4000. The distance between two points A and B in the map is 10 cm. The distance AB on the ground is (in km units): Ans X 1. 40 **2**. 0.4 **X** 3. 4 X 4. 0.04 Question ID: 81616110264 Status: Answered

Chosen Option: 2

Q.22 The order of the components of a typical flexible pavement from bottom to top is:

Q.26 If E is modulus of elasticity, N is modulus of rigidity and K is bulk modulus, then which of the following is a correct relation?

Ans

 \times 1. E = 9NK/(N+K)

✓ 2. E = 9NK/(N+3K)

 \times 3. E = 6NK/(N+3K)

 \times 4. E = 9NK/(3N+3K)

Question ID: 81616110217 Status: Answered

Chosen Option: 2

Q.27 Indian Roads Congress (IRC) was founded in the year:

Ans

√ 1. 1934

X 2. 1948

X 3. 1945

X 4. 1950

Question ID: 81616110196

Status : **Answered**

Chosen Option : 1

Q.28 The amount of water content remaining in a unit volume of soil after downward gravity drainage has ceased is called:

Ans

√ 1 field capacity

× 2. permanent wilting point

X 3. seepage water

X 4. readily available moisture

Question ID: 8161619989

Status: Answered

Chosen Option: 1

Q.29 What should be the liquid capacity of a septic tank designed for 25 users? (Take per user volume requirement as 0.1 m³.)

Ans

√1. 2.50 m³

× 2. 1.80 m²

 \times 3. 3.50 m³

X 4. 3.50 m²

Question ID: 81616110153

Status : Answered

Q.30 The length of a line measured by a 30 m chain was found to be 450 m. If the chain was 0.2 links short, then find the true length of the line. Ans X 1. 449.8 m ✓ 2. 449.1 m X 3. 449.6 m X 4. 448.0 m Question ID: 81616110169 Status: Answered Chosen Option: 4 Q.31 A cantilever beam of span L carries a uniformly distributed load of w kN/unit length. What is the maximum deflection occurring in the beam? (Take E as the modulus of elasticity and I as the moment of inertia of the beam section) X 1. wL3/48EI × 2. wL³/6EI X 3. wL²/8EI ✓ 4. wL⁴/8EI Question ID: 81616110215 Status: Answered Chosen Option: 4 Q.32 According to IS 800: 2007, in the limit state design of steel structures, the limit state of strength does NOT include: Ans 1 stability against overturning 2. corrosion and durability X 3. rupture of the structure X 4. fracture due to fatigue Ouestion ID: 81616110330 Status: Answered Chosen Option: 2 Q.33 Water content of a soil sample can be determined by: Ans X 1. the shrinkage limit method × 2. the jar test method X 3. the sand replacement method

√ 4. the alcohol method

Ouestion ID: 8161619972 Status: Answered

Q.34 According to IS 456: 2000, the ratio of effective span to overall depth of beam, for the consideration of a beam as deep beam, in the case of simply supported and continuous reinforced concrete beams, respectively, are: Ans X 1 2.5 and 2 ✓ 2. 2 and 2.5 X 3. 1.5 and 2 X 4. 2.5 and 3 Question ID: 81616110327 Status: Answered Chosen Option: 2 Q.35 Select the correct option with regard to the following statements (S1 and S2) pertaining to two types of paints. S1: In plastic paint, the thinner used is oil. S2: Varnish is a homogeneous solution of resin in alcohol. Ans X 1. Both S1 and S2 are true ✓ 2. S1 is false and S2 is true X 3. S1 is true and S2 is false X 4. Both S1 and S2 are false Question ID: 81616110243 Status: Not Answered Chosen Option: --Q.36 What will be the fire demand for a city having population of 4,00,000 by the Kuichling's formula? Ans X 1. 49,991 litres/min X 2. 56,111 litres/min √ 3. 63,640 litres/min X 4. 32,159 litres/min Ouestion ID: 81616110207 Status: Answered Chosen Option: 3 Q.37 To measure the static pressure in a pipe, one uses a pressure gauge connected to: Ans 1. a piezometer tapping X 2. a pitot tube X 3. an orifice meter X 4. a venturi meter Question ID: 81616110283 Status: Answered Chosen Option: 1

Q.38 The relation between the area of crop irrigated and the quantity of irrigation water required during the entire period of the growth of that crop is known as: Ans X 1 head X 2. depth ratio 3. duty X 4. delta Question ID: 81616110190 Status: Answered Chosen Option: 3 Q.39 Which of the following is a sedimentary rock? √ 1. Limestone X 2. Gneiss X 3. Granite X 4. Dolerite Question ID: 8161619939 Status: Answered Chosen Option: 1 Q.40 A fluid flows through an orifice of an area 0.4 m² with an actual discharge of 400 l/s. If the theoretical velocity of flow through the orifice is 2 m/s, what is the coefficient of discharge? Ans X 1. 0.71 **2** 0.50 X 3. 0.68 X 4. 0.56 Question ID: 8161619984 Status: Answered Chosen Option: 2 Q.41 Two statements associated with concrete are given. Select the correct option with regard to these statements. 1: As the compaction factor increases, slump decreases. 2: Slump test helps in qualitatively understand the setting time of concrete. 1 Statement 1 is false and statement 2 is true ✓ 2. Statement 1 and statement 2 are false X 3. Statement 1 is true and statement 2 is false X 4. Statement 1 and statement 2 are true Question ID: 81616110323 Status: Answered Chosen Option: 3

Q.42 An 8 m wide bituminous concrete pavement of a state highway is to be constructed in a heavy rainfall region. What should be the height of the crown with respect to the edges if cross fall of 1 in 50 is used? Ans X 1. 0.062 m × 2. 0.07 m X 3. 0.058 m ✓ 4. 0.08 m Question ID: 8161619998 Status: Answered Chosen Option: 4 Q.43 Which of the following options provides the correct sequential stages of engineering surveys to be done for a new highway alignment project? Ans **X** 1. Reconnaissance — Map study — Preliminary survey — Final location and Detailed survey **X** 2. Map study — Preliminary survey — Reconnaissance — Final location and Detailed survey Preliminary survey — Map study — Reconnaissance — Final location and Detailed survey Map study — Reconnaissance — Preliminary survey — Final location and Detailed survey Question ID: 81616110302 Status: Answered Chosen Option: 4 Q.44 The coagulant 'alum' used for treatment of water is also known as: X 1. ferric sulphate X 2. sodium aluminate X 4. ferric chloride Question ID: 81616110006 Status: Answered Chosen Option: 3

Q.45 The following details pertain to the crossing of a canal and a natural drain.

Bed level of canal = ± 171 m; Full supply depth of canal = ± 1.6 m; Bed level of drain = ± 169.2 m; Depth of flow in the drain corresponding to high flood discharge = ± 2.5 m.

The type of cross drainage work to be designed at the crossing location is:

Ans

- 1. a syphon aqueduct
- × 2. a super passage
- X 3. a canal syphon
- X 4. an aqueduct

Question ID: 81616110291 Status: Answered

Chosen Option: 1

Q.46 Which of the following is a semi-modular canal outlet?

Ans

- Pipe outlet discharging freely in the atmosphere
- X 2. Gibb's rigid module
- X 3. Khanna's rigid module
- X 4. Submerged pipe outlet

Question ID: 8161619992 Status: Not Answered

Chosen Option: --

Q.47 The moisture content of sewage sludge of two samples was reduced as follows:

Sample A: 97% to 95%.

Sample B: 98% to 96%

Select the correct inference.

Ans

41.

There is a decrease in volume of 60% for Sample A and 50% for Sample B



There is an increase in volume of 60% for Sample A and 50% for Sample B



The decrease in volume for samples A and B is the same = 50%



The decrease in volume for Samples A and B is the same = 60%

Question ID: 81616110310

Status: Answered

Chosen Option : ${\bf 1}$

Q.48	According to IRC (Indian Roads Congress), what is the maximum stripping value of aggregate construction like surface dressing?	te to be used in bituminous
Ans	X 1. 1%	
	× 2. 45%	
	√ 3. 25%	
	× 4. 12%	
		Question ID : 81616110200
		Status : Not Answered
		Chosen Option :
Q.49	आईएस (IS) 3812 (भाग 1) : 2013 के अनुसार, उस राख (ash) का नाम क्या है, जिसे से तैयार किया जाता है या दोनों को किसी भी अनुपात में मिलाया जाता है और शुष्क रूप जाया जाता है?	फ्लाई ऐश या बॉटम ऐश और निक्षेपित शुष्क में ले
Ans	🗡 ा केल्केरियस फ्लाई ऐश (Calcareous fly as	sh)
	✔ ² माउंड ऐश (Mound ash)	
	🔀 ३. पल्बराइज़्ड फ्यूल ऐश (Pulverized fuel as	sh)
	🔀 4. पॉन्ड ऐश (Pond ash)	
		Question ID : 81616110218 Status : Not Answered
		Chosen Option :
	2000-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
Q.50	If velocity potential (ϕ) exists in a fluid flow, then the flo	ow is said to be:
Ans	× ¹. rotational	
	✓ 2. irrotational	
	× 3. turbulent	
	× 4. laminar	
		Question ID : 8161619981
		Status : Answered
		Chosen Option : 1
Q.51	The diameter of a cylinder in the Le-Chatelier apparatus for conducting the soun	dness test of cement is:
Ans	X 1. 22 mm	
	× 2. 40 mm	
	× 3. 35 mm	
	✓ 4. 30 mm	
		I
		Question ID: 81616110140
		Question ID : 81616110140 Status : Answered Chosen Option : 2

Q.52	What will be ruling minimum radius for horizontal curve of NH (National Highway) in plain design speed = 127 km/h , minimum design speed = 80 km/h , rate of super elevation e = $0.05 = 0.05$)	terrain? (Assume ruling and coefficient of friction
Ans	✓ 1. 1270 m	
	× 2. 1300 m	
	X 3. 400 m	
	× 4. 800 m	
		Question ID : 81616110202 Status : Answered
		Chosen Option : 1
Q.53	उस कार्य की (कोड E, F, G, H वाले) पहचान करें जिसमें मात्राओं के आकलन के लिए माप हैं? E. नहर के बांधों (bunds) की टर्फिंग (Turfing)	की इकाइयां समरूप नहीं
	F. द्वार शटर हेतु काष्ठ कार्य (Wood work)	
	G. सेंटरिंग और शटरिंग, फॉर्मवर्क (Centering and shuttering, formwork) H. वेल सिंकिंग (Well sinking)	
Ans	X 1. F	
	X 2. G	
	X 3. E	
	✓ 4. H	
	• "11	
		Question ID : 81616110251
		Status : Answered Chosen Option : 2
	88/93/2 1/3/21 //2 1 1/1/9/1/1/9/2 1 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	W 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	What is the unit of measurement used for expansion joint w	ork in concrete?
Ans	√ 1. m	
	\times 2. m ²	
	X 3. kg	
	X 3. kgX 4. m³	
		Question ID : 81616110149 Status : Answered Chosen Option : 1

Q.55	A square footing for a column carries a total load (including the self-weight of footing) of 1 capacity of soil is $200~kN/m^2$. Using M 20 grade concrete and Fe415 steel, the area of footinteger) will be:	
Ans	\times 1. 25 m ²	
	✓ 2. 9 m ²	
	\times 3. 16 m ²	
	\times 4. 2 m ²	
		Ouestion ID : 81616110229
		Status : Answered
		Chosen Option : 2
Q.56	The cross drainage structure in which the canal bed level is kept much higher than the hi stream is called:	gh flood level (HFL) of a
Ans	★ 1. a super passage	
	× 2. a canal syphon	
	★ 4. a level crossing	
		Question ID : 8161619995
		Status : Answered
		Chosen Option : 3
Q.57	The total unit weight of the glacial outwash soil is 5 kN/m 3 . The water content to the soil is	17%. Find dry unit weight.
Ans	\checkmark 1. 4.27 kN/m ³	
	\times 2. 6.27 kN/m ³	
	\times 3. 0.29 kN/m ³	
	\times 4. 3.40 kN/m ³	
		Question ID : 81616110175
		Status : Answered Chosen Option : 1
Q.58	According to IS:5515, the distance between the bottom of the lower hopper and the	op of the cylinder in the
Ans	Compacting Factor Apparatus is: 1. 20.0 cm	
	- 20.0 VIII	
	× 2. 22.9 cm	
	X 2. 22.9 cmX 3. 12.7 cm	
	× 3. 12.7 cm	Question ID : 81616110222
	× 3. 12.7 cm	Question ID : 81616110222 Status : Answered Chosen Option : 3

Q.59 Identify the component content which has to be reduced at the time of clinker grinding in the preparation of Quick Setting Cement.

Ans

X 1. Alumina

X 2. Sulphate

X 4. Magnesium

Question ID : 81616110220 Status : Answered

Chosen Option : 3

Q.60 In a cement concrete work mixed in proportion 1:2:4 (cement: fine aggregate: coarse aggregate) by volume, the fine aggregate is observed to have a bulking of 10%. If the correction for bulking is NOT applied, what will be the actual dry fine aggregate in the concrete mix proportion?

Ans

 \times 1.2 × 1.1

 \times 2. $\frac{1.1}{2}$

X 3. 2 × 1.1²

 \checkmark 4. $\frac{2}{1.1}$

Question ID: 81616110238
Status: Not Answered

Chosen Option: --

Q.61 Which of the following is NOT a type of annuity?

Ans

√ 1. Annuity eccentric

× 2. Perpetual annuity

X 3. Annuity due

X 4. Annuity certain

Question ID: 81616110155

Status : **Answered**

Limit state of collapse deals with: Ans X 1 fire resistance durability under working environment during their anticipated exposure conditions during service the strength and stability of structures subjected to the maximum design loads out of the possible combinations 4. deflection and cracking of structures under service loads Question ID: 81616110032 Status: Answered Chosen Option: 3 Q.63 The following data pertains to a sewage sample at a point source. Initial dissolved oxygen (DO) = 12 mg/l; Final DO = 4 mg/l; Dilution of sewage was done to 2%. The Bio-chemical oxygen demand (BOD) of the given sample of sewage is: Ans X 1. 800 mg/l √ 2. 400 mg/l X 3. 8 mg/l X 4. 80 mg/l Question ID: 81616110307 Status: Answered Chosen Option: 2 Q.64 When a 30-metre chain is tested for its accuracy against a steel tape standardised at 20°C with an 8 kg pull, its overall length should NOT deviate beyond 30 Ans \times 1. \pm 5 mm \times 2. +15 mm **√** 3. ±8 mm X 4. +10 mm Question ID: 8161619962 Status: Answered Chosen Option: 3 Q.65 If the latitude and departure of a line AB with the bearing measured at A are 40 m and 30 m, respectively, estimate the length of the line AB. X 1. 10 m Ans X 2. 35 m ✓ 3. 50 m X 4. 70 m

Question ID: 81616110262 Status: Answered Chosen Option: 3 Q.66 Read the given statements and select the correct option.

Statements:

A: Rectangular slabs which are supported only on two opposite sides by unyielding supports and are uniformly loaded along the direction parallel to the supports are one-way slabs.

B: Twisting moments develop in addition to bending moments in the case of two-way slabs, except when the element is oriented along the principal curvatures.

Ans

- X 1. Statement A is correct and statement B is incorrect
- X 2. Statement A is incorrect and statement B is correct
- √ 3. Both statements A and B are correct
- X 4. Both statements A and B are incorrect

Question ID : 81616110029
Status : Not Answered

Chosen Option: --

- Q.67 The following statements (S1, S2, S3) pertain to mass concreting. Which of the following statements are correct?
 - S1: The materials preferred for mass concrete are: Portland cement with low heat of hydration, Pozzolanas, Aggregates (coarse and fine), Water, Admixture, Coolants.
 - S2: Slump of mass concrete shall be the same or more than ordinary concrete work.
 - S3: Concrete with a low water cement ratio, correctly consolidated and properly cured provides durability to mass concrete work.

Ans

- ✓ 1. S1 and S3 only
- X 2. S2 and S3 only
- X 3. S1, S2, S3
- X 4. S1 and S2 only

Question ID : **81616110320**

Status: Not Answered

Chosen Option: --

Q.68 How many groups of soils come under the Indian standard soil classification system?

Ans

- X 1. 8
- X 2. 12
- **X** 3. 4
- 4. 18

Question ID: 8161619975

Status: Answered

A building fetches a rent of $\ref{10,000}$ annually. After repairing, it will last for 2 years. If the rate of interest on capital is 5% and the co-efficient of annual sinking fund is 0.05, then estimate the capitalised value of the building after 2 years. Q.69 Ans X 1. ₹4,50,000 X 2. ₹1,50,000 X 3. ₹8,50,000 √ 4. ₹1,00,000 Question ID: 81616110158 Status: Not Answered Chosen Option: --Q.70 As per IS 10313:1982, which of the following factors does NOT influence the sedimentation process in a sedimentation tank? Ans 1 pH value of water X 2. Size, shape and weight of particle X 3. Surface overflow X 4. Inlet and outlet arrangement Question ID: 81616110209 Status: Answered Chosen Option: 1 Q.71 Identify the method that is NOT used for the computation of average rainfall in a cauchment having n number of Ans 1 Arithmetic average method X 2. Thiessen polygon method X 3. Isohyetal method 4. Hyetograph method Question ID: 81616110288 Status: Answered Chosen Option: 4 Q.72 Which of the following design methods of reinforced cement concrete structures is based on the linear elastic theory? Ans Working stress method X 2. Ultimate load method X 3. Kani's method X 4. Limit state method Question ID: 81616110026 Status: Answered Chosen Option: 1

Q.73 What is the deflection at the free end of a cantilever beam of length L subjected to point load P as shown in the diagram, where E is Young's modulus and I is the moment of inertia?



Ans

- √ 1. PL³
 3EI
- \times 2. $\frac{4PL^3}{3EI}$
- **×** 3. PL² 3EI
- \times 4. $\frac{PL^3}{6EI}$

Question ID: 81616110016

Status : **Answered**

Chosen Option: 1

Q.74 The aggregates are classified as fine aggregates if their size is _____ and less

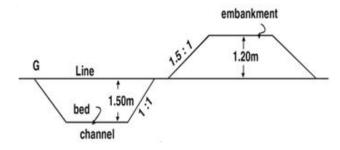
Ans

- ✓ 1. 4.75 mm
- × 2. 10 mm
- X 3. 7.50 mm
- X 4. 2.10 mm

Question ID: 8161619944

Status: Answered

Q.75 What is the lift of soil material for the canal shown in the figure?



- Ans X 1. 1.5 m
 - ✓ 2. 1.35 m
 - X 3. 1.2 m
 - X 4. 13.5 m

Question ID: 8161619951 Status : **Answered**

Chosen Option: 1

Q.76 What is the correct sequence of preparing an estimate?

- 1. Detailed estimate
- 2. Approximate estimate
- 3. Supplementary estimate
- 4. Revised estimate

- Ans X 1. 1, 2, 3, 4
 - × 2. 4, 3, 1, 2
 - **√** 3. 2, 1, 3, 4
 - **X** 4. 1, 3, 2, 4

Question ID: 8161619953

Status: Answered

Q.77 Among the following air pollutants, identify the ones responsible for the greenhouse effect. 1. Carbon dioxide 2. Methane 3. Sulphur dioxide 4. Chlorofluorocarbons 5. Carbon monoxide Ans X 1, 1, 2, 3, 5 **√** 2. 1, 2, 4 X 3. 3, 4, 5 **X** 4. 1, 2, 3, 4, 5 Question ID: 81616110306 Status: Answered Chosen Option: 1 Q.78 IS 399 के अनुसार, गिरे हुए पेड़ों से प्राप्त की गई लकड़ी को पेड़ की स्थिति के आधार पर वर्गीकृत किया जाता है Ans √¹ असमतल लकड़ी (rough timber) X 2 जीवित लकड़ी (living timber) 🔀 ্য खड़ी लकड़ी (standing timber) 🔀 4. मृत लकड़ी (dead timber) Question ID: 8161619938 Status: Answered Chosen Option: 4 Q.79

A machine purchased at a cost of $\ref{10,000}$ has a useful life of two years. The amount which is to be set aside annually as sinking fund at the rate of 10% compound interest will be:

Ans

X 1 ₹1,000/0.31

X 2. ₹1,000/0.10

√ 3. ₹1,000/0.21

X 4. ₹1,000/1.10

Question ID: 81616110156 Status: Answered

A 50 m tape is held 2 m out of line. What is the true length? Ans X 1. 48 m ✓ 2. 49.96 m X 3. 49.02 m X 4. 48.02 m Ouestion ID: 81616110165 Status: Answered Chosen Option: 2 Q.81 What is the rate of flow in a rectangular channel 4 m wide and 2 m deep with a bed slope of 1 in 900 when it is running full if Chezy's constant is 50? Ans \times 1. 14.38 m³/s \checkmark 2. 13.33 m³/s \times 3. 12.25 m³/s \times 4. 10.56 m³/s Question ID: 8161619985 Status: Answered Chosen Option : 2 Q.82 Which of the following tests is NOT used for testing fineness of cement? X 1. Air permeability method X 2. Wagner Turbidimeter method ✓ 3. Density bottle method X 4. Sieve method Question ID: 8161619945 Status: Answered Chosen Option: 3 Q.83 According to IS 800:2007, what will be the maximum slender ratio of a member (beam) carrying compressive load resulting from dead load and imposed load? X 1. 250 **2**. 180 X 3. 300 X 4. 200 Question ID: 81616110235 Status: Answered Chosen Option: 2

₹.04	The minimum stripping time of soffit formwork to beams (props to be refixed in is:	nmediately after removal of formwork)
ns	X 1. 3 days	
	× 2. 21 days	
	× 4. 14 days	
		0 11 15 011111011
		Question ID : 81616110319 Status : Answered
		Chosen Option : 3
.85	A double U-shaped butt weld is to connect two plates 200 mm (d) \times 20 mm (b) the stress developed in the weld if it is subjected to a moment of 10000 kN-mm	
	d = 200 mm	
	b = 20mm	
ns	✓ 1. 75 N/mm ²	
	\times 2. 50 N/mm ²	
	× 3. 150 N/mm ²	
	× 4. 100 N/mm ²	
		Question ID : 81616110035
		Status : Answered
		Chosen Option : 4
.86	Highest momentary peak discharge at the respective point of observation in riv once every year, is known as:	er flow, which is equalled or exceeded
ns	★ 1. back water	
	√ 2. annual flood	
	× 3. avulsion	
	★ 4. base flood	
		Question ID : 81616110187
		Status : Answered
		Chosen Option : 2

Q.87 निम्नलिखित चार में से कौन-सी खुली भूमि (open land) के मूल्यांकन की विधि नहीं है?

Ans

- 🔀 १ तुलनात्मक विधि (Comparative method)
- 🗶 २ बेल्टिंग विधि (Belting method)
- 🗡 ः अपाकर्षी विधि (Abstractive method)
- √ ⁴ प्रगतिबोधक विधि (Progression method)

Question ID: 81616110154
Status: Not Answered

Chosen Option: --

Q.88 Within the elastic limit of a material, modulus of elasticity is ratio of:

Ans

- X 1. area to strain
- X 2. stress to area
- X 3. strain to stress
- √ 4. stress to strain

Question ID: 81616110212

Status : Answered

Chosen Option: 4

Q.89 As per IS 800: 2007, what is the maximum value of effective slenderness ratio of a beam / strut / tension member for the following cases?

Case 1: Members carrying compressive loads resulting from dead loads and imposed loads.

Case 2: Members always under tension.

Case 3: Members subjected to compressive forces resulting from a combination of wind/earthquake actions.

Ans

- X 1. Case 1: 250, Case 2: 350, Case 3: 300
- ✓ 2. Case 1: 180, Case 2: 400, Case 3: 250
- X 3. Case 1: 250, Case 2: 350, Case 3: 400
- X 4. Case 1: 200, Case 2: 250, Case 3: 400

Question ID: 81616110332

Status : Answered

Q.90 If N is the number of sides of a closed traverse, then select the INCORRECT checks applied on a closed traverse.

Ans



The sum of measured interior angles should be equal to (2N-4) right angles.



The sum of measured exterior angles should be equal to the sum of measured interior angles.



The sum of measured exterior angles should be equal to (2N+4) right angles.



The fore bearing of the last line should be equal to its back bearing \pm 180° measured at the initial station.

Question ID: 8161619966 Status: Answered Chosen Option: 2

Q.91 Which of the following terms represents the torque that produces a twist of one radian in a shaft of unit length?

1 Flexural rigidity

X 2. Torsional stress

3. Torsional rigidity

Moment of resistance

A. Moment of resista

Question ID: 81616110312 Status: Answered

Chosen Option: 3

Q.92 A construction firm has decided to use burnt clay bricks of class 20 and above (as per IS 1077: 1992) for the construction of a residential complex. The table below gives the details of Samples with Id (S1, S2, S3, S4, and S5) taken from five different suppliers. The criteria to be adopted are the percentage of water absorption and average compressive strength of bricks corresponding to bricks of class 20 and above. Select the Id of the samples which can be recommended for use in brick wall construction.

Id	Water absorption	Average compressive
	(%)	strength (kN/m ²)
S1	18	17500
S2	20	21000
S3	12	20000
S4	10	14000
S5	15	27000

X 1. S1, S2, S3 and S4 only

X 2. S1, S2, S3, S4 and S5

X 4. S2, S3, S4, and S5 only

Question ID: 81616110246 Status: Answered

Q.93 For the flow of an ideal, incompressible, non-viscous fluid, the Bernoulli's equation, can be expressed as:

(Notations: p - intensity of pressure, γ - unit weight of fluid, v - velocity of flow, Z - datum head, g - acceleration due to gravity).

Ans

$$\checkmark$$
 1. $Z + \frac{p}{\gamma} + \frac{v^2}{2g} = Const.$

$$\times$$
 2. $Z - \frac{p}{\gamma} + \frac{v^2}{g} = Const.$

$$\times 3. Z - \frac{p}{\gamma} + \frac{v^2}{2g} = Const.$$

$$\times$$
 4. $Z + \frac{p}{\gamma} + \frac{v^2}{g} = Const.$

Question ID : 81616110281 Status : Answered

Chosen Option : 1

Q.94 According to IS: 654-1962, the maximum water absorption percentage of Class AA type Mangalore pattern tiles is:

Ans

Question ID: 81616110146

Status: Answered

Chosen Option: 4

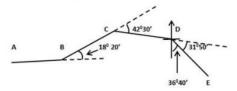
Q.95 As per IS 10500:2012, the permissible limit of total dissolved solids (TDS), (in mg/l), in drinking water in the absence of an alternate source is:

Ans

Question ID: 81616110206

Status : Answered

Q.96 In a compass survey work of an open traverse ABCDE shown in figure, the bearing of the first line AB observed was not clearly written in the field. The observed bearing of the last line DE was recorded as S36°40'E. If the deflection angles are 31°50' (right) at D, 42°30' (right) at C, and 18°20' (left) at B, calculate the bearing of the first line AB.



X 1. N 48°40' E

✓ 2. N 87°20' E

X 3. S 87°20' E

X 4. S 48°40' E

Question ID: 81616110269

Status: Not Answered

Chosen Option: --

Q.97 In a standard penetration test, what is the weight of the hammer and the dropping height used as per IS 2131-1981?

X 1. 4.89 kg, 450 mm

✓ 2. 63.5 kg, 750 mm

X 3. 63.5 kg, 450 mm

X 4. 2.6 kg, 310 mm

Question ID: 8161619977

Status: Answered

Chosen Option: 2

Q.98 Under which of the following conditions is the rent statement of a building NOT prepared?

Ans



When there are additions or alterations to a residential building, costing beyond a certain limit, fixed by the government.



When a residential building is newly constructed by the government





A residential building owned by the government is converted to a field office for data collection by the government



When a residential building is acquired by purchase, lease or transfer by the government

Question ID: 81616110258

Status: Not Answered

Q.99 The unit weight of a soil sample is 20 kN/m^3 and the water content is 18%. The dry density of the soil sample is:

Ans

✓ 1. 16.94 kN/m³

× 2. 21.18 kN/m³

× 3. 11.89 kN/m³

X 4. 11.12 kN/m³

Question ID : **8161619973**Status : **Answered**Chosen Option : **1**

Q.100 The steepest gradient computed for a 2 degree curve with a ruling gradient of 1 in 200 is done for broad gauge (BG) and metre gauge (MG) railway lines. Select the correct inference from the given options.

Ans

X 1.

Steepest gradient for the BG line = 0.44% and for the MG line = 0.42%

★ 2. Steepest gradient = 0.44% for the BG and MG lines

X 3. Steepest gradient = 0.42 % for the BG and MG lines.

4.

Steepest gradient for the BG line = 0.42% and for the MG line = 0.44%

Question ID: 81616110301 Status: Not Answered