



### GOVT. OF NCT OF DELHI

Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi – 110092.

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Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ 1 GT Karnal Road
Test Date	29/06/2022
Test Time	12:30 PM - 2:30 PM
Subject	Junior Engineer (Civil) or Section Officer (Civil)

Section: Mental Ability

Q.1 Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statement:

No senior is junior. All officers are seniors.

Conclusions:

I. No officer is junior.

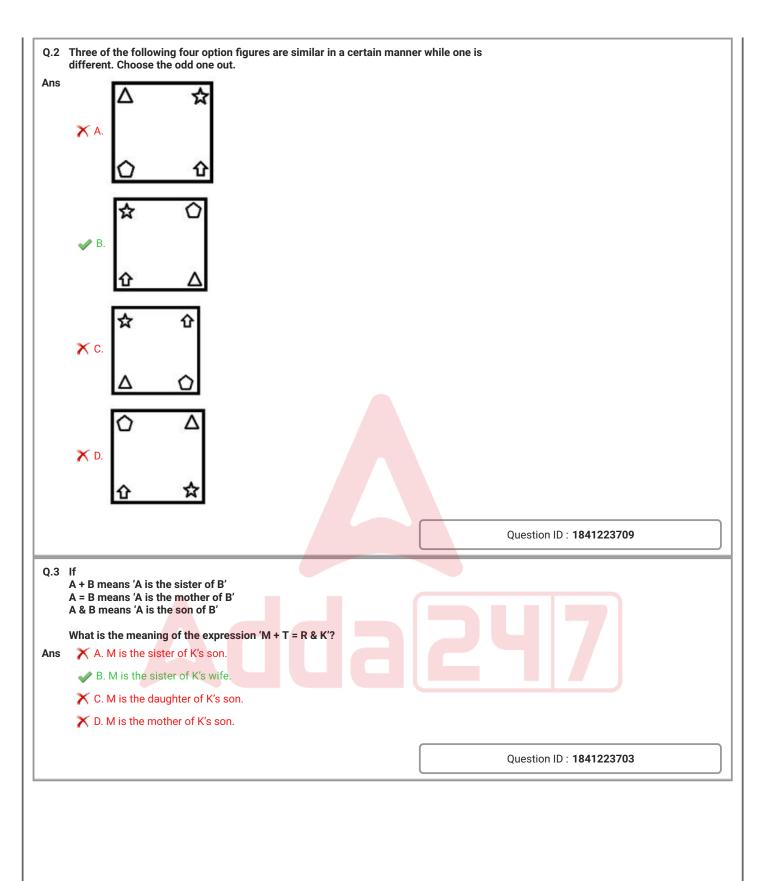
II. Some officers are juniors.

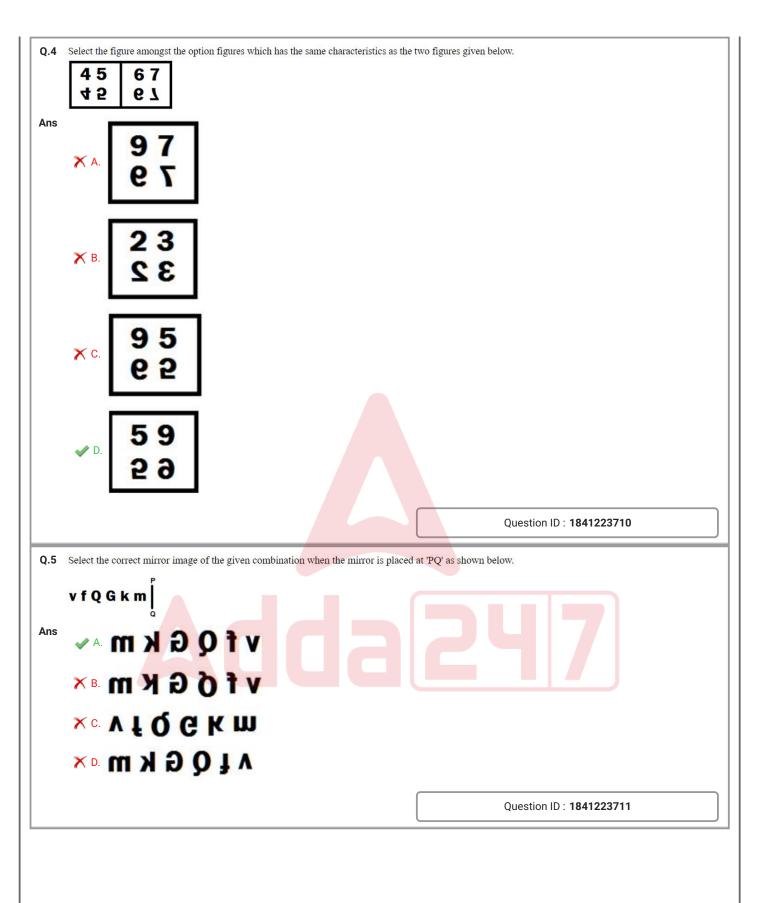
Ans X A. Either conclusion I or II follows

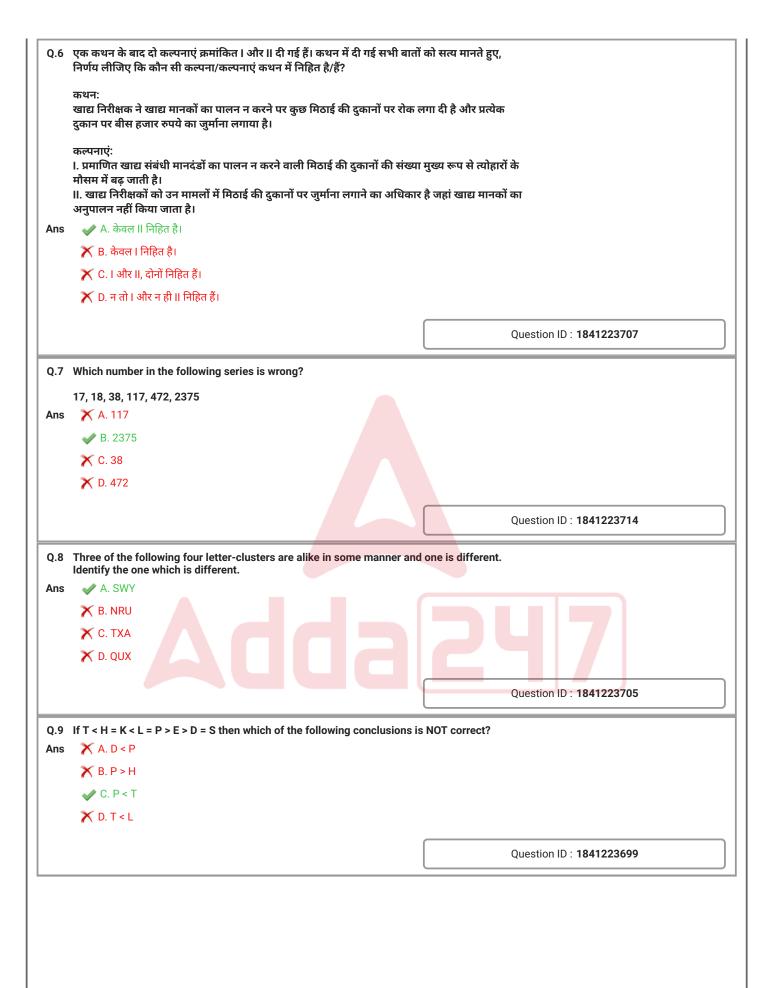
B. Only Conclusion I follows

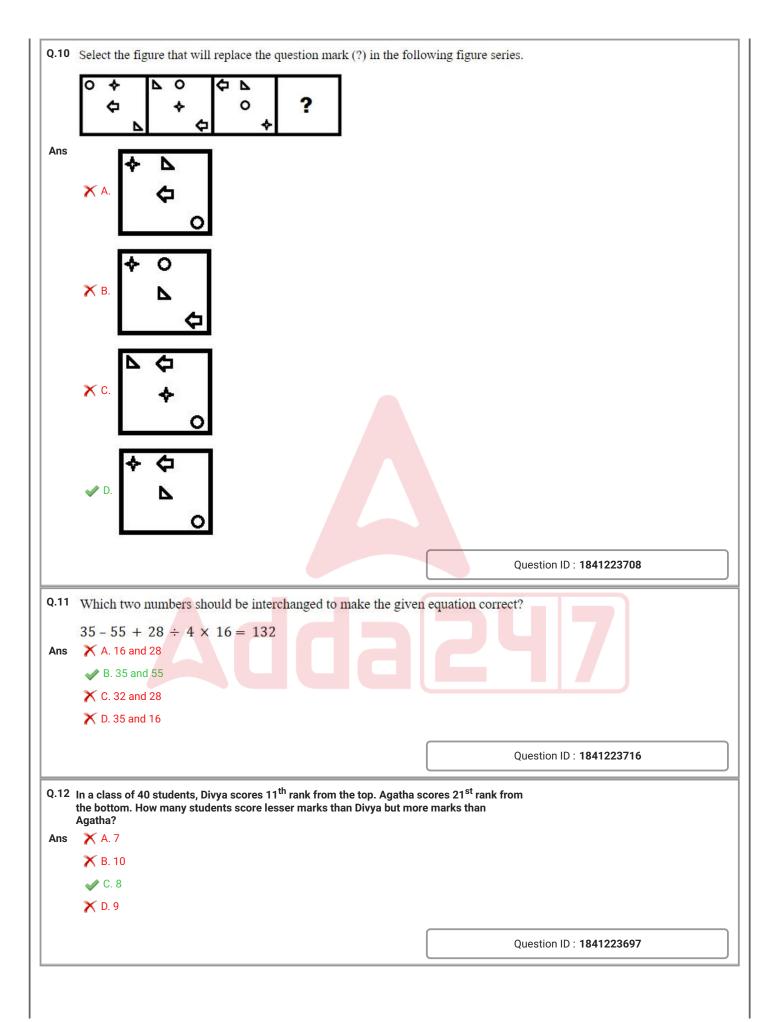
X C. Only Conclusion II follows

X D. Both conclusions I and II follow

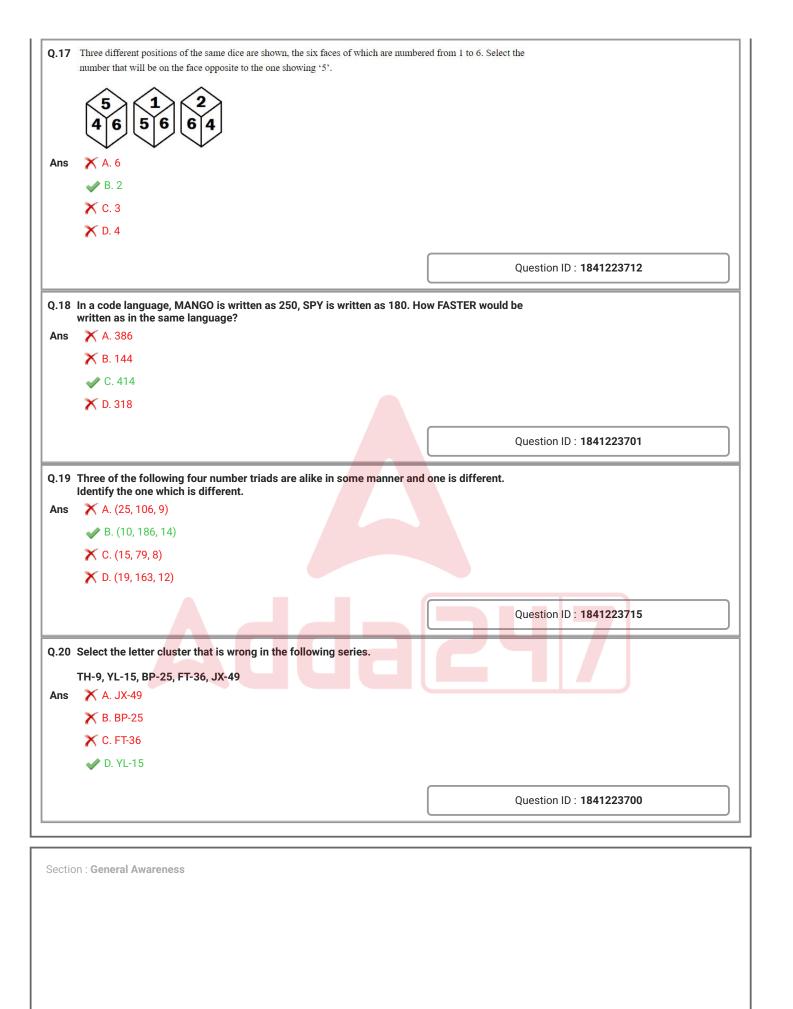


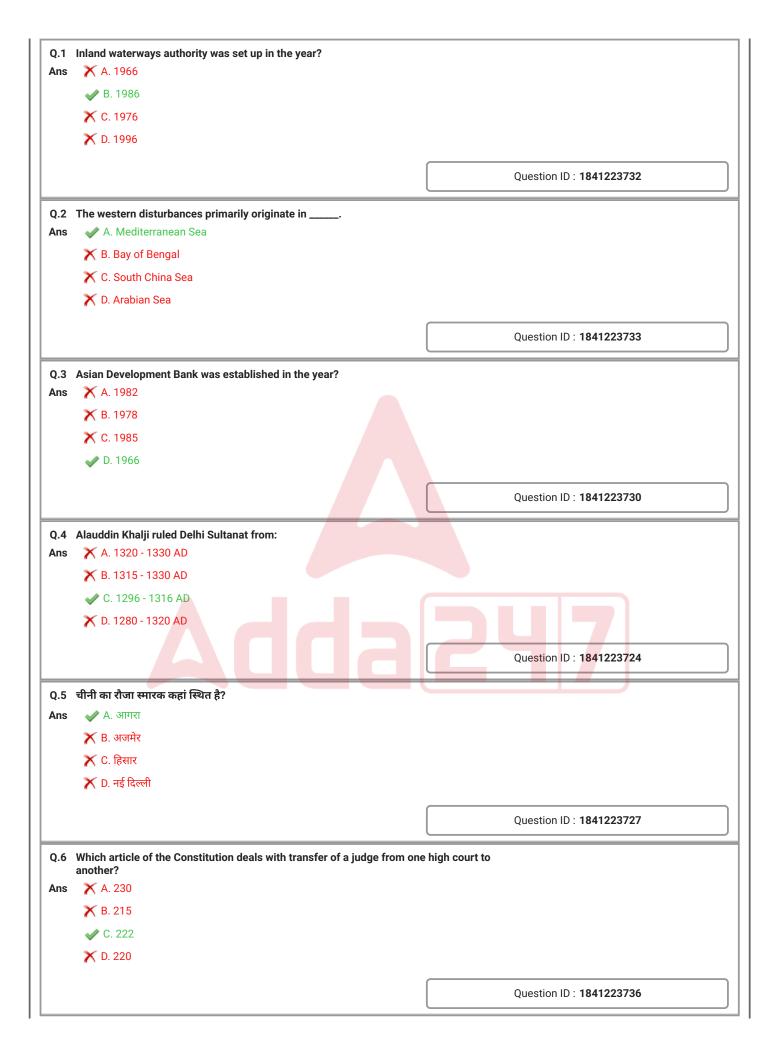


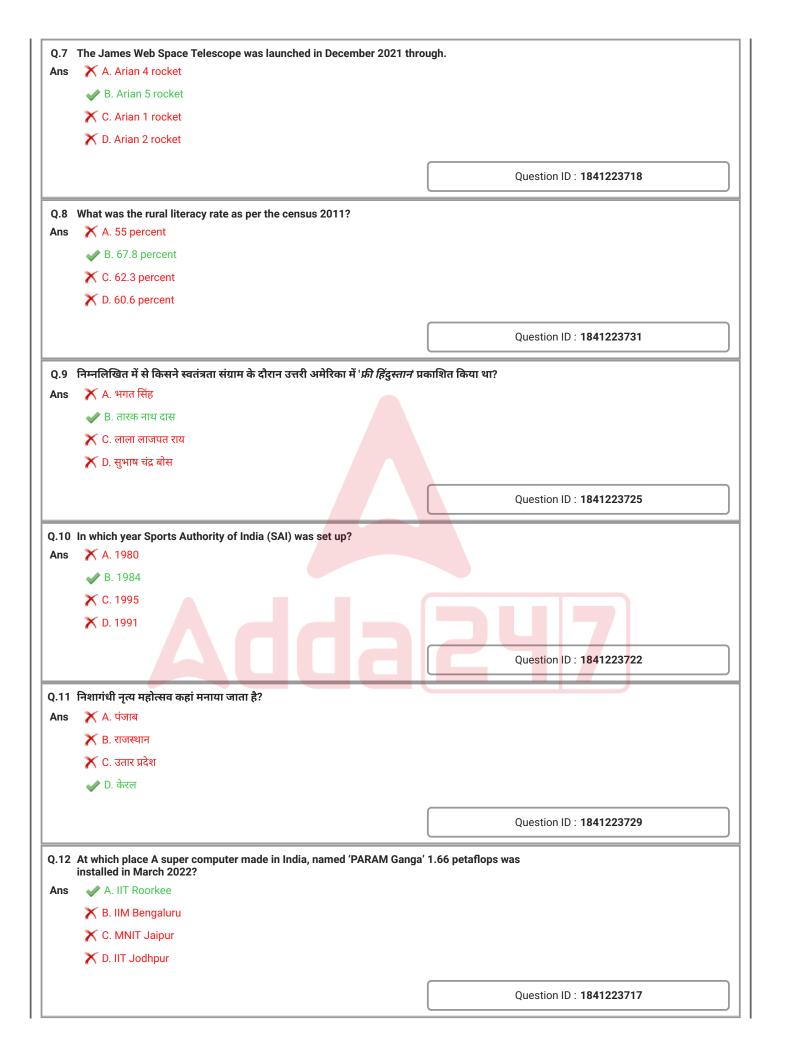


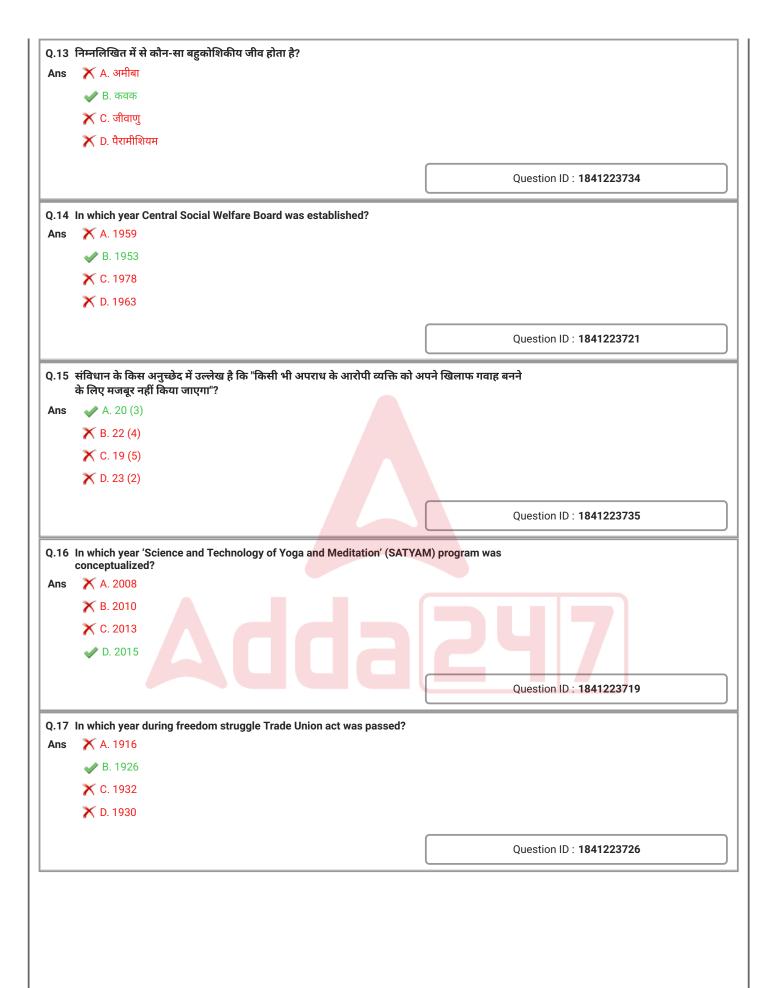


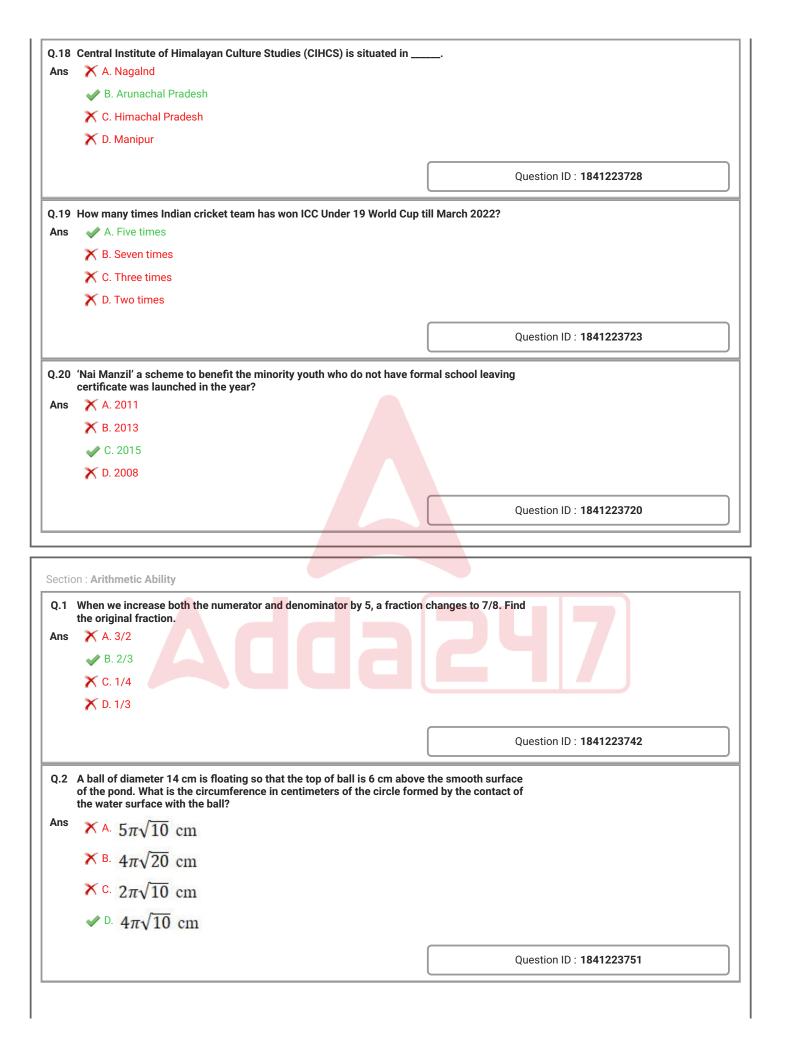
Q.13	Which number will replace the question mark (?) in the following series:	?
	7, 15, 42, 106, 231, ?	
Ans	X A. 296	
	<b>★</b> B. 317	
	<b>★</b> C. 348	
	<b>✓</b> D. 447	
		0 11 10 101000710
		Question ID : <b>1841223713</b>
Q.14	Select the option that is related to the third term in the same way as the related to the first term.	second term is
	OMD-11 : QPH-127 :: KSV-15 :	
Ans	✓ A. MVZ-231	
	<b>★</b> B. MUZ-231	
	<b>★</b> C. MVA-221	
	<b>★</b> D. MVY-235	
		Question ID : 1941222704
		Question ID : <b>1841223704</b>
Q.15	Swapnil starts walking from his home and goes 45 m north then he turn m. After that, he turns left again and walks 75 m to reach an ATM. What distance between his home and the ATM?	s left and walks 40 is the shortest
Ans	X A. 40 m	
	<b>★</b> B. 45 m	
	<b>✓</b> C. 50 m	
	<b>X</b> D. 35 m	
		Question ID : 1841223702
Q.16	Three of the following four letter-cluster pairs are alike in some manner different. Identify the one which is different.	and one is
Ans	★ A. COPE : FRRG	
	➤ B. MIST : UULQ	
	✓ C. SORT : UTSV	
	X D. DECK : LEHH	
		Question ID : <b>1841223706</b>
		Question ib . 1841223700



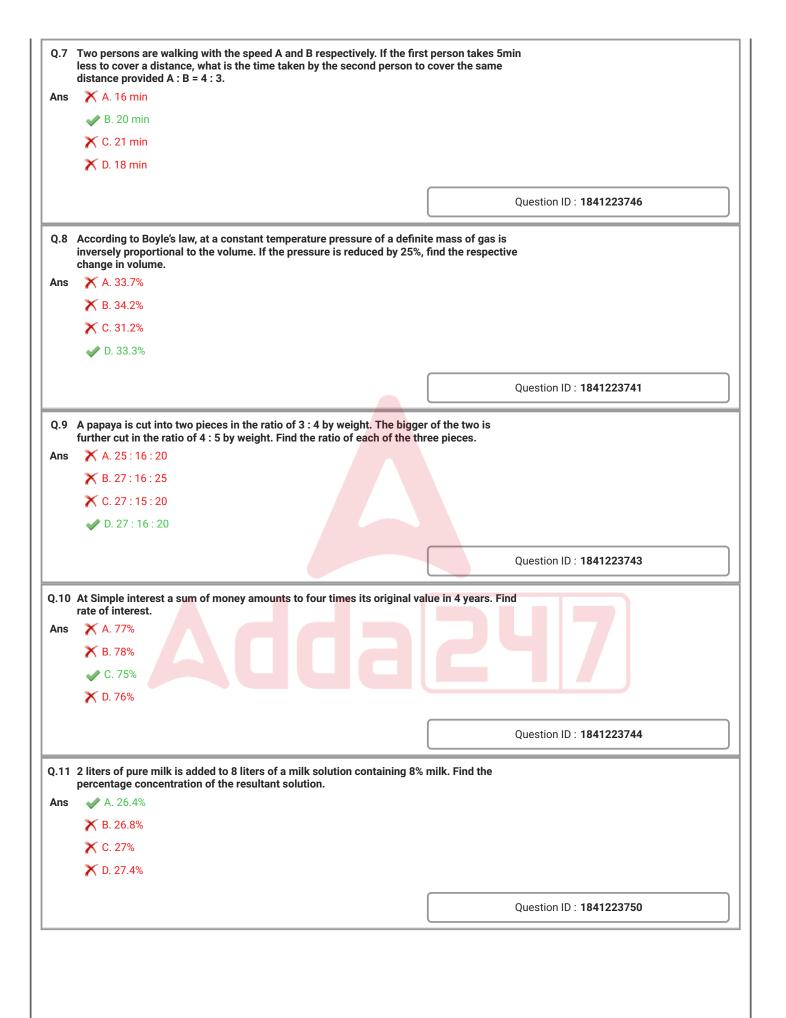




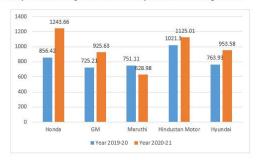




Q.3	3 liters concen	of pure spirit is tration of the sp	added to pirit in the	5 litres	s of a spiri ant solutio	it solut on?	tion contains 20% spirit. What is the
Ans	<b>X</b> A.	60%					
	<b>X</b> B.	65%					
	<b>✓</b> C.	50%					
	🗶 D.	55%					
							Outsetion ID : 1041222740
							Question ID : 1841223749
Q.4							
	ट्यावसा	यिक पाठ्यक्रमों	के अनुसा	T ABC	में छात्रों	का वित	नरण।
	क्र.सं	पाठ्यक्रम	220000 1120		ার		
		9	अभियां'	0.00	गैर-अभिर		<del>- </del>
	1	प्रबंधन विज्ञान	लड़िकयाँ 20	लड़के 42	लड़िकयाँ 20	लड़के 55	
	2	कंप्यूटर	25	168	22	30	-
	3	वित्त	23	110	15	56	
	4	अन्य	18	102	5	8	
	सभी पा	ठ्यक्रमों को मिल	ाने पर, ल	ड़कों की	संख्या ल	ड़िकयों	की संख्या से कितने प्रतिशत अधिक है?
Ans	<b>X</b> A.	287.5					
	Ж В.	286.5					
	<b>X</b> C.	284.5					
	<b>✓</b> D.	285.8					
							Question ID : 1841223755
Q.5	77.7	4 - 20 1 - 4l				(r.75	57 . 57) :
			e rema	ınder	wnen	(5/5	<sup>57</sup> + 57) is divided by 58.
Ans	<b>X</b> A.						
	<b>X</b> B.						
	<b>✓</b> C.						
	X D.	57					
							Question ID : 1841223737
0.6		<del></del>	om 3ª- c		<del></del>		ववत हैं, तो त्रिभुज के क्षेत्रफल के लिए,
Q.6	एक ।त्रभु निम्नलि	ज का दा भुजाए 5 खेत में से कौन-सी	cm आर 6 असमानता	टाग ह <b>र</b> सर्वाधि	जा एक दूस <sup>.</sup> क सटीक हैं	र क लब ?	ववत ह, ता ।त्र मुज क क्षत्रफल क ।लए,
Ans	<b>X</b> A.	<15					
	<b>※</b> B.	≠15					
	<b>X</b> C.	>15					
	<b>✓</b> D.	=15					
							Question ID: 1841223752
							4333331121131122132



Q.12 Study the following bar chart carefully and answer the question.



What is the percentage change in the overall sales turnover of the five companies together between 2019-20 to 2020-21.

Ans

X A. 18.7

X B. 18.1

✓ C. 18.4

X D. 18.8

Question ID: 1841223756

Q.13 The diameter of a road roller is 36 cm and its length is 84 cm. it takes 300 complete revolutions moving once over to level the stretch of the road. If the cost of leveling is ₹80 per m², then the total cost of leveling works out to.

Ans

A. ₹22,809.6

X B. ₹21,635.6

X C. ₹21,506.6

X D. ₹21,809.6

Question ID: 1841223754

Q.14 The height of a cone is 25 cm. A small cone is cutoff at the top by a plane parallel to the base. The volume of this smaller cone 1/8<sup>th</sup> of the given cone. What is the height of the smaller cone?

Ans

X A. 11.5 cm

X B. 12 cm

✓ C. 12.5 cm

X D. 11 cm

Question ID: 1841223753

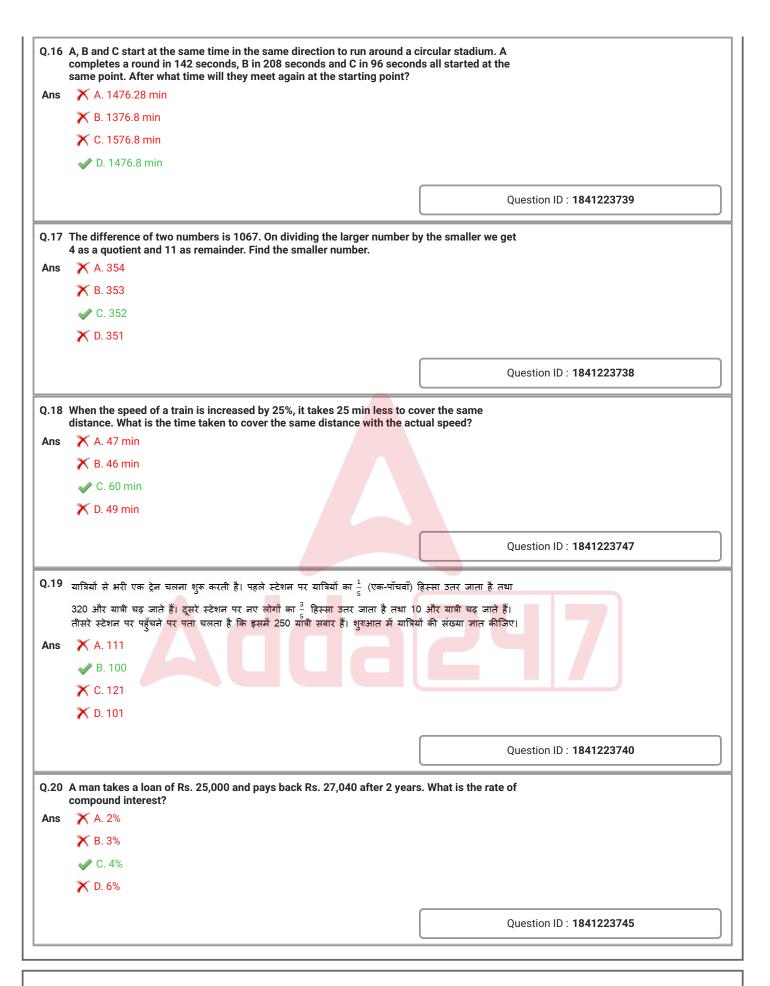
Q.15 In a kilometer race Ravi beats Rahul by 150 m and Rahul beats Rakesh by 240 m. By how many meters does Ravi beat Rakesh in the same race.

Ans

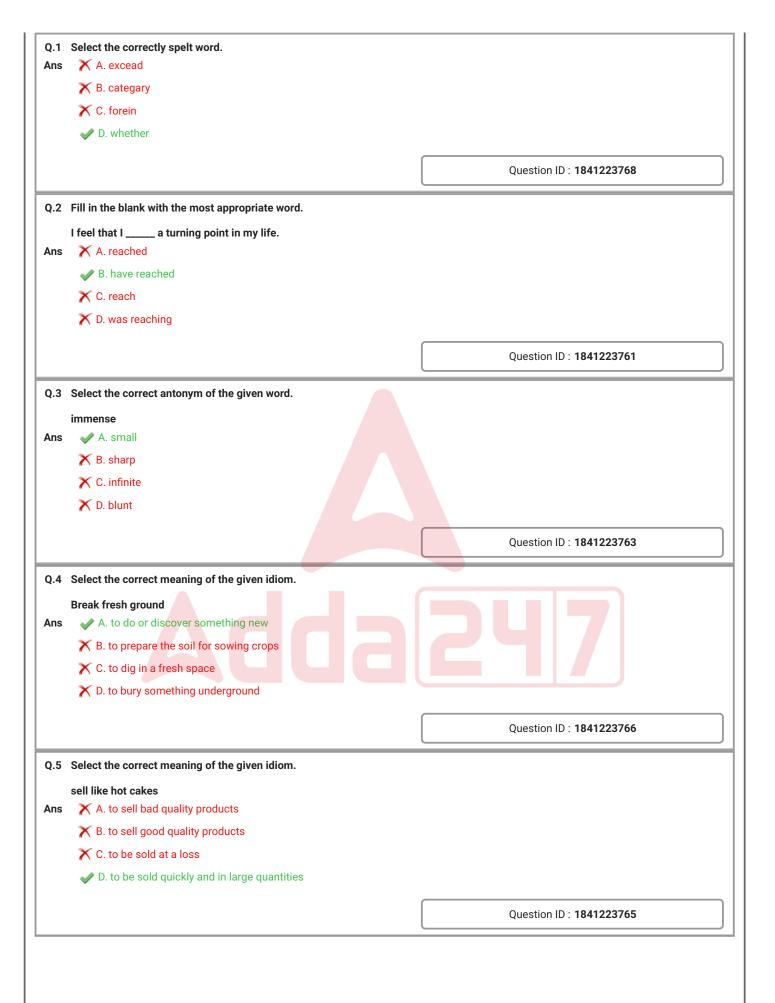
X A. 352 m

🗙 C. 353 m

🗙 D. 351 m



Section: General English



Q.6	Fill in the blank with the most appropriate word.
	He made tall of his achievements.
Ans	X A. Requests
	➤ B. Please
	C. Demands
	✓ D. Claims
	Question ID : 1841223770
	Quadrant 1 10 11220770
Q.7	Fill in the blank with the most appropriate word.
	Our is a man of
Ans	X A. principle, principal
	→ B. principal, principle  → B. principal, principle  → B. principal, principle  → B. principal, principle  → B. principal, principal  → B. principal  →
	C. principal, principal
	X D. principle, principle
	Question ID : 1841223764
_	
Q.8	Select the correct meaning of the given proverb.
	a bird in hand is worth two in the bush
Ans	X A. one rare bird is valued more than two common ones
	X B. a bird that is caught warns others on the tree
	C. what you already possess is better than what you might possess
	X D. what you cannot achieve appears to be more precious
	Question ID : 1841223767
Q.9	Identify the grammatically correct sentence.
Ans	A. Doing this job from evening till morning quite tired I am of monotonous.
	X B. This monotonous job quite tired of I am doing from morning till evening.
	C. I am quite monotonous of doing this tired job from evening till morning.
	D. I am quite tired of doing this monotonous job from morning till evening.
	Question ID : 1841223769
0 10	Fill in the blank with the most appropriate word.
Q.10	He waited for me at the gate.
Ans	X A. slowly
	X B. slightly
	X C. strictly
	✓ D. patiently
	Question ID : 1841223759

Q.11	Select the correct synonym of the given word.	
	havoc	
Ans	X A. boon	
	✓ B. chaos	
	★ C. peace	
	X D. calm	
		Question ID : <b>1841223762</b>
		Question 15 . 1641225762
Q.12	Fill in the blank with the most appropriate word.	
	The man narrated an tale of valour.	
Ans	✓ A. Incredible	
	X B. Optimum	
	C. Efficient	
	X D. Auspicious	
		Question ID : 1841223771
Q.13	Fill in the blank with the most appropriate word.	
	My dress after one wash.	
Ans	X A. shrink	
	X B. was shrinking	
	★ C. shrinks	
	✓ D. shrunk	
		Question ID : <b>1841223760</b>
Q.14	Fill in the blank with the most appropriate word.	
	Her face is familiarus.	
Ans	X A. with	
	<b>✓</b> B. to	
	<b>X</b> C. at	
	X D. by	
		Question ID : <b>1841223757</b>
Q.15	Fill in the blank with the most appropriate word.	
	I enquired him about his date of travel.	
Ans	X A. into	
	<b>X</b> B. off	
	<b>X</b> C. from	
	<b>✓</b> D. of	
		Question ID : <b>1841223758</b>

Read the passage and answer the questions that follow.

Jane Goodall was born in London on April 3, 1934. On her second birthday, her father gave her a toy chimpanzee named Jubilee. Jubilee was named after a baby chimp in the London Zoo and seemed to foretell the course that Jane's life would take.

In July 1960, Jane arrived at Gombe National Park, Tanzania to study the chimpanzees in the wild. Jane faced many challenges as she began her work. The chimpanzees did not accept her right away, and it took months for them to get used to her presence in their territory. But she was very patient and remained focussed on her goal.

At first, she was able to watch the chimpanzees only from a great distance, using binoculars. As time passed, she moved closer to them while still using camouflage. Eventually, she was able to sit among them, touching, patting, and even feeding them. It was an amazing accomplishment for Jane and a breakthrough in the study of animals in the wild. Jane named all the chimpanzees that she studied, stating that she felt each had a unique personality. One of the first significant observations that Jane made was that chimpanzees make and use tools, much like humans do, to help them get food. Also, that chimps eat meat as well as plants and fruits. In many ways, she has helped us to see how chimpanzees and humans are similar.

The study started by Jane Goodall in 1960 is now the longest field study of any animal species in their natural habitat. Dr Jane Goodall is now the world's most renowned authority on chimpanzees, having studied their behaviour for nearly 40 years. She has published many scientific articles. She has written two books and has won numerous awards for her ground-breaking work.

SubQuestion No: 16

Q.16 Which of the given statements is true?

- 1. Jane named all the chimpanzees that she studied.
- 2. Jane felt each chimpanzee had a unique personality.

Ans

- X A. Statement 1 is the cause of statement 2
  - X B. Statement 2 is the effect of statement 1
  - X C. Statement 1 is not related to statement 2
  - D. Statement 2 is the cause of statement 1

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SubQuestion No: 17

Q.17 Which of these is NOT a similarity between humans and chimpanzees?

Ans X

X A. Using tools to procure food

B. Using camouflage for survival

X C. Eating meat as well as plants

X D. Making tools



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#### SubQuestion No: 18

Q.18 At first, Jane observed the chimps from a distance because:

Ans X A. she could observe them better through the binoculars

X C. she had no access to the deep forests

X D. she was attacked by them and had to remain hidden



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SubQuestion No: 19

Q.19 What can be regarded as an achievement of Jane Goodall?

X A. publishing articles and books on chimpanzees

X B. watching chimpanzees from a great distance

C. touching, petting and feeding chimpanzees

X D. naming all the chimpanzees that she was studying



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SubQuestion No: 20

Q.20 The word 'breakthrough' as used in the passage means:

Ans X A. a short vacation for rejuvenation

X B. a forced or dictated action

X C. a gap or shortcoming in a theory

D. a sudden, important discovery

Question ID: 1841223776

# Section : General Hindi

## Q.1 वाक्य विन्यास की दृष्टि से अशुद्ध वाक्य है-

Ans X A. गुलाब के फूल-जैसा शिशु का मुख किसे मुग्ध नहीं करता?

🗙 B. दारोगा गुस्से में बड़े ज़ोरों से दाँत पीसता हुआ जा रहा था।

✓ C. नाच के समय खुलकर फैल जाते हैं मोर के बहुत बड़े पंखे जैसे पंख।

🗙 D. न जाने कितने लोग इस बार भी बाढ़ के पेट में समा गए।

Question ID: 1841223789

Q.2 'वह ऐसे ही लिखता रहे तो उसकी किताब पूरी ही हो जाए।' वाक्य उदाहरण है-

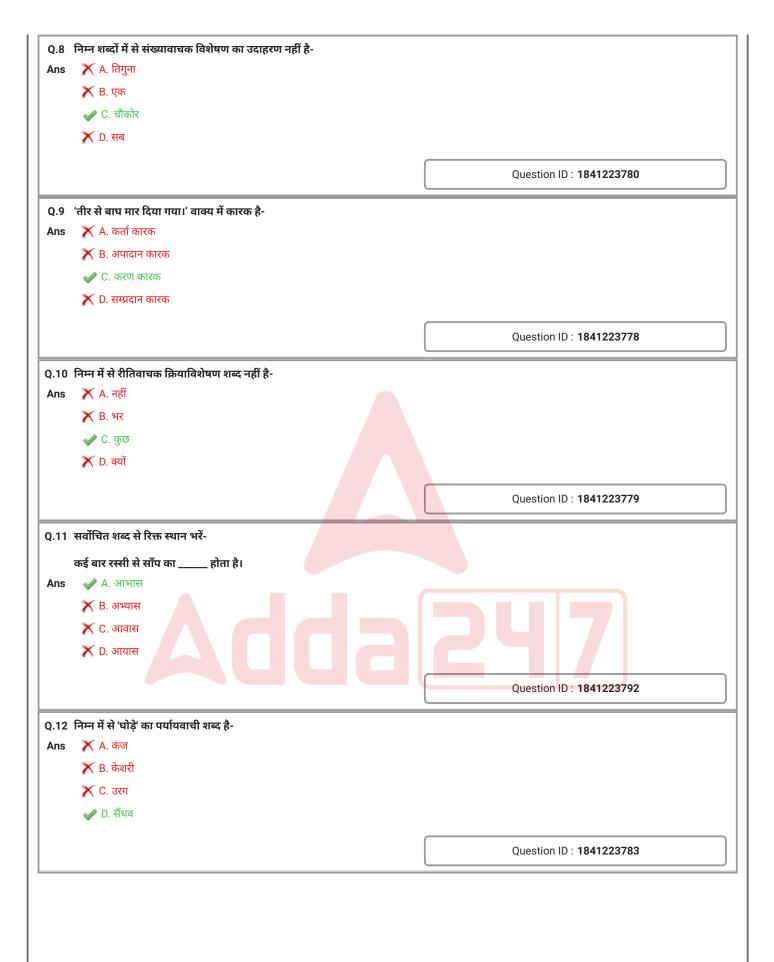
Ans 💢 A. सामान्य भविष्य का

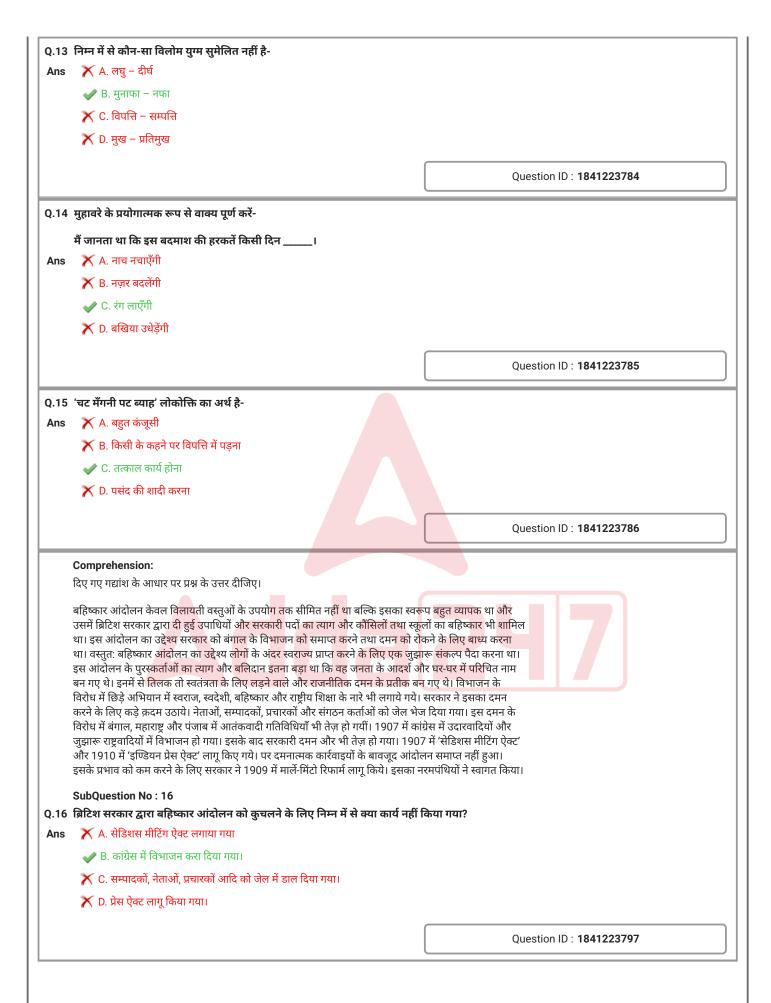
\chi B. संभाव्य भविष्य का

🗙 C. संभाव्य वर्तमान का

🛹 D. हेतुहेतुमद्भविष्य का

Q.3 'कृदन्त' का संधि विच्छेद होगा-	
Ans 🔀 A. कृद्य + अंत	
🗙 B. कृत्य + अंत	
✔ C. कृत् + अंत	
🔀 D. कृद् + अंत	
	Question ID : 1841223782
Q.4 'अन्वय' में संधि है-	
Ans 🔀 A. दीर्घ संधि	
🔀 B. गुण संधि	
✔ C. यण् संधि	
🔀 D. अयादि संधि	
	Question ID : 1841223781
Q.5 वाक्य विन्यास की दृष्टि से शुद्ध वाक्य है-	
Ans X A. टुकड़े-टुकड़े कर दिए मेघा ने पन्ने फाड़ कर पुस्तक के।	
🗙 B. मेघा ने पन्ने फाड़ कर पुस्तक के टुकड़े-टुकड़े दिए कर।	
🗙 C. पुस्तक के पन्ने फाड़ कर टुकड़े-टुकड़े कर दिए मेघा ने।	
✔ D. मेघा ने पुस्तक के पन्ने फाड़ कर टुकड़े-टुकड़े कर दिए।	
	Question ID : 1841223790
Q.6 उचित शब्द से वाक्य का रिक्त स्थान भरें-	
प्रयोगशाला में मैंने गंधक का देखा था। Ans X A. अमल	
AIS	
X C. अमूल	
🗙 D. अमूल्य	
D. Orge	
	Question ID : 1841223791
Q.7 'भारत हमेशा से विश्व-शांति का आकांक्षी रहा है।' वाक्य उदाहरण है-	
Ans 🗸 A. तात्कालिक वर्तमान का	
🗙 B. सम्भाव्य वर्तमान का	
★ C. सामान्य वर्तमान का	
🗙 D. संदिग्ध वर्तमान का	
	Question ID: 1841223787





दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

बहिष्कार आंदोलन केवल विलायती वस्तुओं के उपयोग तक सीमित नहीं था बल्कि इसका स्वरूप बहुत व्यापक था और उसमें ब्रिटिश सरकार द्वारा दी हुई उपाधियों और सरकारी पदों का त्याग और कौंसिलों तथा स्कूलों का बहिष्कार भी शामिल था। इस आंदोलन का उद्देश्य सरकार को बंगाल के विभाजन को समाप्त करने तथा दमन को रोकने के लिए बाध्य करना था। वस्तुत: बहिष्कार आंदोलन का उद्देश्य लोगों के अंदर स्वराज्य प्राप्त करने के लिए एक जुझारू संकल्प पैदा करना था। इस आंदोलन के पुरस्कर्ताओं का त्याग और बलिदान इतना बड़ा था कि वह जनता के आदर्श और घर-घर में परिचित नाम बन गए थे। इनमें से तिलक तो स्वतंत्रता के लिए लड़ने वाले और राजनीतिक दमन के प्रतीक बन गए थे। विभाजन के विरोध में छिड़े अभियान में स्वराज, स्वदेशी, बहिष्कार और राष्ट्रीय शिक्षा के नारे भी लगाये गये। सरकार ने इसका दमन करने के लिए कड़े क़दम उठाये। नेताओं, सम्पादकों, प्रचारकों और संगठन कर्ताओं को जेल भेज दिया गया। इस दमन के विरोध में बंगाल, महाराष्ट्र और पंजाब में आतंकवादी गतिविधियाँ भी तेज़ हो गयीं। 1907 में कांग्रेस में उदारवादियों और जुझारू राष्ट्रवादियों में विभाजन हो गया। इसके बाद सरकारी दमन और भी तेज़ हो गया। 1907 में 'सेडिशस मीटिंग ऐक्ट' और 1910 में 'इण्डियन प्रेस ऐक्ट' लागू किए गये। पर दमनात्मक कार्रवाइयों के बावजूद आंदोलन समाप्त नहीं हुआ। इसके प्रभाव को कम करने के लिए सरकार ने 1909 में मार्ले-मिंटो रिफार्म लागू किये। इसका नरमपंथियों ने स्वागत किया।

SubQuestion No: 17

# Q.17 बहिष्कार आंदोलन के संदर्भ में असत्य कथन है-

Ans X A. बहिष्कार आंदोलन बंगाल विभाजन के विरोध स्वरूप चलाया गया।

💢 B. इसका उद्देश्य लोगों के अंदर स्वराज प्राप्ति के लिए जुझारू संकल्प पैदा करना था।

✓ C. इस आंदोलन में अंग्रेज़ों से पूरी तरह स्वतंत्रता प्राप्त करने के लिए संघर्ष किया गया।

💢 D. इसमे विलायती वस्तुओं के साथ ही सरकारी नौकरियों, स्कूलों आदि का भी बहिष्कार शामिल था।

Question ID: 1841223798

#### Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

बहिष्कार आंदोलन केवल विलायती वस्तुओं के उपयोग तक सीमित न<mark>हीं था ब</mark>ल्क इसका स्वरूप बहुत व्यापक था और उसमें ब्रिटिश सरकार द्वारा दी हुई उपाधियों और सरकारी पदों का त्याग और कौंसिलों तथा स्कूलों का बहिष्कार भी शामिल था। इस आंदोलन का उद्देश्य सरकार को बंगाल के विभाजन को समाप्त करने तथा दमन को रोकने के लिए बाध्य करना था। वस्तुत: बहिष्कार आंदोलन का उद्देश्य लोगों के अंदर स्वराज्य प्राप्त करने के लिए एक जुझारू संकल्प पैदा करना था। इस आंदोलन के पुरस्कर्ताओं का त्याग और बिलदान इतना बड़ा था कि वह जनता के आदर्श और घर-घर में परिचित नाम बन गए थे। इनमें से तिलक तो स्वतंत्रता के लिए लड़ने वाले और राजनीतिक दमन के प्रतीक बन गए थे। विभाजन के विरोध में छिड़े अभियान में स्वराज, स्वदेशी, बहिष्कार और राष्ट्रीय शिक्षा के नारे भी लगाये गये। सरकार ने इसका दमन करने के लिए कड़े क़दम उठाये। नेताओं, सम्पादकों, प्रचारकों और संगठन कर्ताओं को जेल भेज दिया गया। इस दमन के विरोध में बंगाल, महाराष्ट्र और पंजाब में आतंकवादी गतिविधियाँ भी तेज हो गयी। 1907 में कांग्रेस में उदारवादियों और जुझारू राष्ट्रवादियों में विभाजन हो गया। इसके बाद सरकारी दमन और भी तेज हो गया। 1907 में 'सेडिशस मीटिंग ऐक्ट' और 1910 में 'इण्डियन प्रेस ऐक्ट' लागू किए गये। पर दमनात्मक कार्रवाइयों के बावजूद आंदोलन समाप्त नहीं हुआ। इसके प्रभाव को कम करने के लिए सरकार ने 1909 में मार्ले-मिंटो रिफार्म लागू किये। इसका नरमपंथियों ने स्वागत किया।

SubQuestion No: 18

Q.18 पुरस्कर्ता का अर्थ है-

Ans 💢 A. चयनित

🥓 B. अगुआ

\chi C. अंतिम

X D. उपकृत

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

बहिष्कार आंदोलन केवल विलायती वस्तुओं के उपयोग तक सीमित नहीं था बल्कि इसका स्वरूप बहुत व्यापक था और उसमें ब्रिटिश सरकार द्वारा दी हुई उपाधियों और सरकारी पदों का त्याग और कौंसिलों तथा स्कूलों का बहिष्कार भी शामिल था। इस आंदोलन का उद्देश्य सरकार को बंगाल के विभाजन को समाप्त करने तथा दमन को रोकने के लिए बाध्य करना था। वस्तुत: बहिष्कार आंदोलन का उद्देश्य लोगों के अंदर स्वराज्य प्राप्त करने के लिए एक जुझारू संकल्प पैदा करना था। इस आंदोलन के पुरस्कर्ताओं का त्याग और बलिदान इतना बड़ा था कि वह जनता के आदर्श और घर-घर में परिचित नाम बन गए थे। इनमें से तिलक तो स्वतंत्रता के लिए लड़ने वाले और राजनीतिक दमन के प्रतीक बन गए थे। विभाजन के विरोध में छिड़े अभियान में स्वराज, स्वदेशी, बहिष्कार और राष्ट्रीय शिक्षा के नारे भी लगाये गये। सरकार ने इसका दमन करने के लिए कड़े क़दम उठाये। नेताओं, सम्पादकों, प्रचारकों और संगठन कर्ताओं को जेल भेज दिया गया। इस दमन के विरोध में बंगाल, महाराष्ट्र और पंजाब में आतंकवादी गतिविधियाँ भी तेज़ हो गयीं। 1907 में कांग्रेस में उदारवादियों और जुझारू राष्ट्रवादियों में विभाजन हो गया। इसके बाद सरकारी दमन और भी तेज़ हो गया। 1907 में 'सेडिशस मीटिंग ऐक्ट' और 1910 में 'इण्डियन प्रेस ऐक्ट' लागू किए गये। पर दमनात्मक कार्रवाइयों के बावजूद आंदोलन समाप्त नहीं हुआ। इसके प्रभाव को कम करने के लिए सरकार ने 1909 में मार्ले-मिंटो रिफार्म लागू किये। इसका नरमपंथियों ने स्वागत किया।

SubQuestion No: 19

# Q.19 इण्डियन प्रेस ऐक्ट कब लागू हुआ?

Ans

X A. 1810

X C. 1807

X D. 1907

Question ID: 1841223795

#### Comprehension:

दिए गए गद्यांश के आधार पर प्रश्न के उत्तर दीजिए।

बहिष्कार आंदोलन केवल विलायती वस्तुओं के उपयोग तक सीमित नहीं था बल्क इसका स्वरूप बहुत व्यापक था और उसमें ब्रिटिश सरकार द्वारा दी हुई उपाधियों और सरकारी पदों का त्याग और कौंसिलों तथा स्कूलों का बहिष्कार भी शामिल था। इस आंदोलन का उद्देश्य सरकार को बंगाल के विभाजन को समाप्त करने तथा दमन को रोकने के लिए बाध्य करना था। वस्तुत: बहिष्कार आंदोलन का उद्देश्य लोगों के अंदर स्वराज्य प्राप्त करने के लिए एक जुझारू संकल्प पैदा करना था। इस आंदोलन के पुरस्कर्ताओं का त्याग और बलिदान इतना बड़ा था कि वह जनता के आदर्श और घर-घर में परिचित नाम बन गए थे। इनमें से तिलक तो स्वतंत्रता के लिए लड़ने वाले और राजनीतिक दमन के प्रतीक बन गए थे। विभाजन के विरोध में छिड़े अभियान में स्वराज, स्वदेशी, बहिष्कार और राष्ट्रीय शिक्षा के नारे भी लगाये गये। सरकार ने इसका दमन करने के लिए कड़े क़दम उठाये। नेताओं, सम्पादकों, प्रचारकों और संगठन कर्ताओं को जेल भेज दिया गया। इस दमन के विरोध में बंगाल, महाराष्ट्र और पंजाब में आतंकवादी गतिविधियाँ भी तेज हो गयीं। 1907 में कांग्रेस में उदारवादियों और जुझारू राष्ट्रवादियों में विभाजन हो गया। इसके बाद सरकारी दमन और भी तेज हो गया। 1907 में 'सेडिशस मीटिंग ऐक्ट' और 1910 में 'इण्डियन प्रेस ऐक्ट' लागू किए गये। पर दमनात्मक कार्रवाइयों के बावजूद आंदोलन समाप्त नहीं हुआ। इसके प्रभाव को कम करने के लिए सरकार ने 1909 में मार्ले-मिंटो रिफार्म लागू किये। इसका नरमपंथियों ने स्वागत किया।

SubQuestion No: 20

Q.20 बहिष्कार आंदोलन में निम्न में से किसका बहिष्कार नहीं किया गया?

Ans

💢 A. ब्रिटिश सरकार द्वारा दी गई उपाधियाँ

\chi B. विलायती वस्तुओं

X C. सरकारी पदों का

🥒 D. सरकारी चिकित्सालय

Question ID: 1841223796

Section: Discipline1

<ul> <li>Q.1 Rectilinear motion of a particle is defined by the relation s=t³-4t²+20t-3. Calculate the velocity when time (t) = 5 sec. consider that value 's' is measure in meters.</li> <li>Ans</li></ul>	
<ul> <li>X B. 122 m/sec</li> <li>✓ C. 55 m/sec</li> <li>X D. 156 m/sec</li> </ul>	
<ul> <li>✓ C. 55 m/sec</li> <li>✓ D. 156 m/sec</li> </ul>	
➤ D. 156 m/sec	ì
Question ID : 1841	1223812
O 2 Compiler the helesy statements with respect to work and resource and identify compatible control	
Q.2 Consider the below statements with respect to work and power and identify correct answer. Statement A: The product of the displacement and the component of force in the direction of displacement is referred to as work done. Statement B: Power has direction component as it is a vector quantity.	
Ans X A. Statement B is correct and A is incorrect	
X B. Both statements are incorrect	
✓ C. Statement A is correct and B is incorrect	
X D. Both satements are correct	
Question ID : 1841	1223813
Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer.  Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to	
<ul> <li>Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer. Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero. Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.</li> <li>Ans A. Both statements are incorrect</li> <li>B. Statement A is correct and B is incorrect</li> <li>C. Both satements are correct</li> </ul>	
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Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer.  Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.  Ans A. Both statements are incorrect  B. Statement A is correct and B is incorrect  C. Both satements are correct  D. Statement B is correct and A is incorrect  Question ID: 1841  Q.4 How many thermometers are used in Searle's Apparatus which is used to find the thermal conductivity of a good conductor?	1223800
Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer. Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.  Ans	1223800
Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer.  Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.  Ans	1223800
Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer.  Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.  Ans	1223800
Q.3 Consider the below statements with respect to Kirchoff's Law and identify correct answer.  Statement A: At any node (junction) in a circuit the product of currents entering and leaving a node at any instant of time must be equal to zero.  Statement B: In a closed circuit, the algebraic sum of all source voltages must be equal to the algebraic sum of all the voltage drops.  Ans	1223800
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Q.5 Which of the following is the correct expression according to parallel axis theorem used for finding moment of inertia of plane figures? Where,

 $'l_{1-1}'$  is the moment of inertia of plane figure about an axis 1-1 which not passing through centroid of plane figure.

 $I_{\text{X-X}}$  is the moment of inertia of plane figure about an axis x-x passing through centroid which is parallel to axis 1-1.

A is the area of considered plane figure

h is the perpendicular distance between axis 1-1 and axis x-x.

Ans

$$\times$$
 A.  $I_{1-1} = I_{X-X} + A^2h$ 

$$\times$$
 B.  $I_{1-1} = I_{X-X}^2 + Ah^2$ 

$$\checkmark$$
 C.  $I_{1-1} = I_{X-X} + Ah^2$ 

$$\times$$
 D.  $I_{1-1} = I_{X-X}^2 + A^2h$ 

Question ID: 1841223811

Q.6 Which of the following theorem states that "a linear two-terminal circuit can be replaced by an equivalent circuit consisting of a current source IN in parallel with a resistor  $R_N$ " where  $I_N$  is the short-circuit current through the terminals and  $R_N$  is the input or equivalent resistance at the terminals when the independent sources are turned off?

Ans X A. Maximum Power Transfer Theorem

X B. Superposition Theorem

C. Norton's Theorem

X D. Thevenin's theorem

Question ID: 1841223816

Q.7 Four concurrent forces are acting at a point O as shown in figure. What would be the component of the resultant force in the X direction?

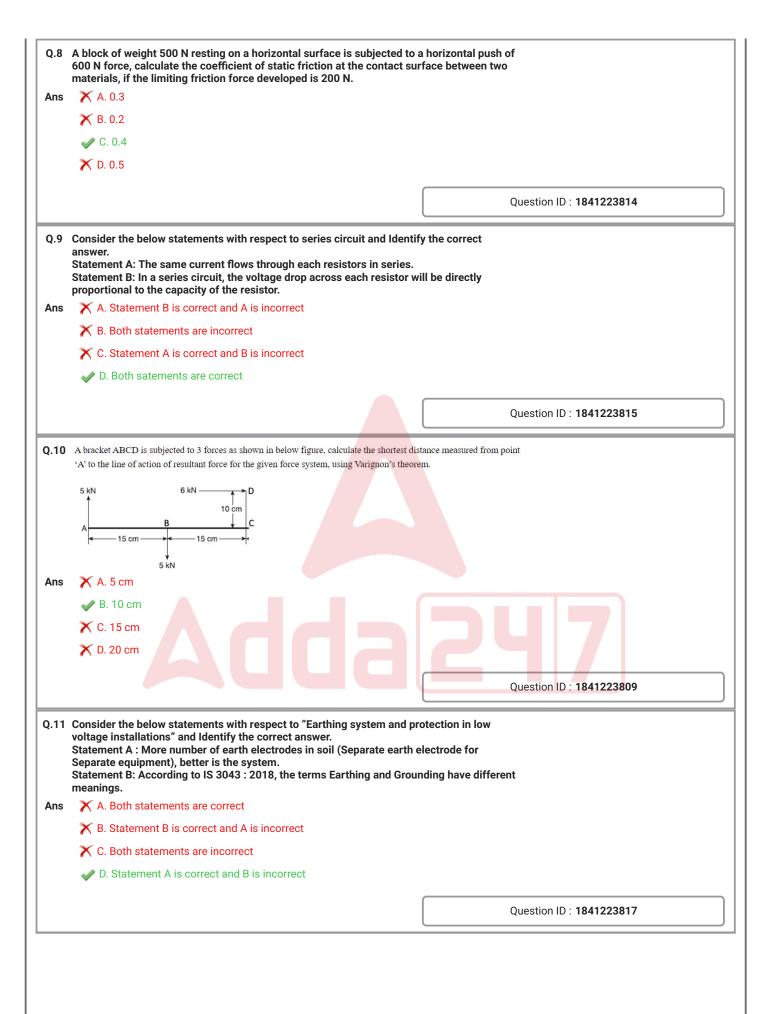


Ans X A. 400 N

X B. 450 N

X C. 300 N

✓ D. 350 N



	Pitting corrosion in metals is a	
Ans	X A. Metallurgically influenced corrosion	
	X B. Uniform corrosion	
	C. General corrosion	
	✓ D. Localized corrosion	
		Question ID : 1841223805
		Question 15 : 1641225555
Q.13	The arithmetic mean between two numbers is 75 and their geometric numbers.	nean is 21. Find the
Ans	X A. 63 and 87	
	X B. 73 and 77	
	✓ C. 3 and 147	
	X D. 133 and 17	
		Question ID : 1841223806
Q.14	Which of the following is not the property of an equipotential surface?	
Ans	X A. Work done in moving a charge over an equipotential surface is	zero
	X B. The spacing between equipotential surfaces helps to identify re	gions of strong fields
	C. The electric field is always parallel to an equipotential surface	
	X D. The spacing between equipotential surfaces helps to identify re	gions of weak fields
		Question ID : 1841223799
Q.15	As per IS 10500 : 2012, permissible limit for the turbidity of drinking w	ater in the absence of
Ans	alternate source is  X A. 3 NTU	
7	X B. 10 NTU	
	✓ C. 5 NTU	
	X D. 1 NTU	
	No. Time	
		Question ID : 1841223804
		1 1 1 (2)
Q.16	Two solutions of a substance (non electrolyte) with a different values mixed, volume of first solution is 400 mL with 1.5 M and volume of sem with 1 M second solution. Calculate the molarity of the final mixture.	cond solution is 500
Ans	<b>★</b> A. 0.95 M	
	<b>★</b> B. 1.39 M	
	<b>★</b> C. 1.56 M	
	<b>✓</b> D. 1.22 M	
		Ougation ID : 1941222992
		Question ID : <b>1841223802</b>

Q.17	Identify incorrect statement with respect to crossbelt drive used to transmit power from one
	shaft to another

Ans X A. In case of cross belt drive, belt wears very fast.

**X** B. Since power transmitted by this type of belt drive is due to the friction, belt drive is subjected to slip and creep.

C. In case of cross belt drive, the pulleys rotate in the same direction.

X D. In case of cross belt drive, the angle of contact of belt on both the pulleys is equal.

Question ID: 1841223818

# Q.18 The tangent to the curve $y = e^{2x}$ at the point (0, 1) meets x -axis at:

**Ans** X A. (0, 2)

✓ B. (-1/2, 0)

X C. (2, 0)

X D. (0, 1)

Question ID: 1841223807

# Q.19 Consider the below statements with respect to dissolved oxygen and temperature and identify correct answer.

Statement A: Cold water can hold more dissolved oxygen than warm water.

Statement B: Dissolved-oxygen concentration is independent of temperature of water.

Ans X A. Both satements are correct

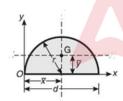
✓ B. Statement A is correct and B is incorrect

X C. Statement B is correct and A is incorrect

X D. Both statements are incorrect

Question ID: 1841223803

# Q.20 A semi circular lamina with radius r = 30 mm is shown in figure. The location of the centroid G of the lamina with respect to the axis passing through the diameter (OX) is at a distance of \_\_\_\_\_ mm.



Ans

$$\checkmark$$
 A.  $\frac{40}{\pi}$ 

$$\times$$
 D.  $\frac{30}{\pi}$ 

Ans	landing or any intermediate newel post is known as   ✓ A. Helical Stairs  ➤ B. Quarter Turning stairs	
	X B. Quarter Turning stairs	
	2. Quarter farming stand	
	★ C. Three quarter turn stairs	
	X D. Straight stairs	
		Question ID : <b>1841223827</b>
Q.2	As per National Building code of India ,which of the following type of bui Group G based on occupancy?	lding comes under
Ans	X A. Mercentile buildings.	
	✗ B. Storage buildings	
	✓ C. Industrial buildings	
	X D. Hazardus Buildings	
		Question ID : 1841223821
Q.3	Pick odd one out with respect to classification of boilers accor <mark>din</mark> g to co	ontents in tubes
Ans	✓ A. Stirling boiler	meno in tabes.
	X B. Lancashire boiler	
	C. Conchran boiler	
	X D. Cornish boiler	
		Question ID : 1841223819
Q.4	Identify the general principle to be used in case of all the Damp-proofing	L mathada
Ans	A. At the corners the damp-proofing course should be discontinuos	metious.
	✓ B. Damp proofing course may be horizontal or vertical	
	C. The damp-proofing course should be kept exposed on the wall su	rface
	X D. Damp proofing course must be inclined	
		Question ID : <b>1841223826</b>
	A 100440 0040 (6)	
	As per IS 8112: 2013, If the final setting time of ordinary Portland ceme greater than, such cement should be rejected	nt-grade 43 is
Ans	X A. 6 hours	
	✓ B. 10 hours	
	X C. 4 hours	
	X D. 8 hours	
		Question ID : <b>1841223838</b>

Q.6	The type of closer in a brick obtained by cutting the brick longitudinally into two equal part called	is as shown in figure is
Ans	A. King closer	
	✓ B. Queen closer	
	★ C. Bevelled closer	
	X D. Metered closer	
		Question ID : <b>1841223822</b>
Q.7	What is the ratio of surface tension between hollow bubble and liquid drop	olet?
Ans		
	<b>★</b> B. 0.125	
	<b>★</b> C. 2	
	<b>✓</b> D. 0.5	
		Question ID : 1841223830
Q.8		
Ans		
	➤ B. Haunch	
	✓ C. Extrados	
	X D. Ring	
		Question ID: 1841223824
-		
Q.9	The discharge equation for a triangular V-notch with coefficient of discharby	
Ans	where, Q = discharge through triangular V notch and H = Head of water ab	ove V notch.
7 1110	$A \cdot Q = 1.417H^{5/2}$	
	$\times$ C. Q = 1.417H <sup>2/3</sup>	
	X D. Q = 1.417H <sup>3/2</sup>	
		Question ID : 1841223833
0.10	Considering the zones in the vertical distribution of water occurs in soil, ic	lentify the zone in
4	which Phreatic water exists.	, 20.0
Ans		
	➤ B. Zone of aeration	
	C. Zone of saturation	
	X D. Vadose zone	
		Question ID: 1841223828

Q.11	Identify the incorrect statement with respect to parts of internal comb	ustion (IC) engines.
Ans	A. Fuel injector is fitted on the cylinder head of petrol engine to sp of fuel.	ray metered quantity
	X B. The inside diameter of the cylinder used in IC engines is called	as "bore"
	C. Flywheel is mounted on the crankshaft of the engine to maintai the crankshaft.	n uniform rotation of
	D. Valves are used to control the flow of the intake and exhaust ga	ises to and from the
	engine cylinder, in case of 4 stroke engines.	
		Question ID : 1841223820
Q.12	As per IS 6198: 1992, thickness of top and bottom ledges of a Ledged doors shall be	I type of wooden
Ans	200	
	<b>★</b> B. 5 mm	
	✓ C. 25 mm	
	<b>★</b> D. 80 mm	
	•	
		Question ID : 1841223825
0.13	If Wheat requires about 8 cm of water every 28 days, and the base per	ind for wheat is 140
4.10	days, determine the water requirement (delta) of Wheat in cm."	
Ans		
	<b>★</b> B. 80 cm	
	<b>✓</b> C. 40 cm	
	X D. 60 cm	
		Question ID : 1841223829
		Question 15 : 1041223027
Q.14	Linux operating system is invented by	
Ans	X A. Linux churi	
	X B. Linux Ritche	
	★ C. Linus madam	
	✓ D. Linus Torvalds	
		Question ID : 1841223835
		Question 15 : 1041223333
Q.15	Which of the following type of computer is comparatively most powers and accuracy?	ful in terms of speed
Ans		
	X B. Mainframe	
	✓ C. Super computer	
	X D. Personal computer	
		Question ID : <b>1841223836</b>

Q.16	Q.16 A most economical rectangular channel of width 4 m is having a bed slope of 1 in 1600. find	
Ans	the hydraulic depth.  A. 0.25 m	
	<b>★</b> B. 1 m	
	<b>★</b> C. 4 m	
	<b>✓</b> D. 2 m	
	·	
		Question ID : 1841223834
Q.17	Which of the following loop is an entry controlled loop?	
Ans	X A. Mailing loop	
	X B. Do- while loop	
	C. Linus loop	
	✓ D. While loop	
		Question ID : 1841223837
		Question ib . 1041223637
Q.18	If a partition wall consist of a framework of timber within which hal fitted are called as	f – brick partitions are
Ans	A. Reinforced brick partitions	
	X B. Plain brick partitions	
	✓ C. Bricknogged partitions	
	X D. Concrete partitions	
		Question ID : 1841223823
Q.19	A rectangular tank of 20 m <sup>2</sup> area filled with water to a height of 5 n	n, calculate the total
	water pressure (F) at the bottom of the tank.	
Ans	X A. 98100 Newtons	
	X B. 9810000 Newtons	
	✓ C. 981000 Newtons	
	X D. 9810 Newtons	
		Question ID : 1841223831
	Which of the following is correct regarding Piezometer?	
Ans	A. used to estimate the rate of flow of liquid through a pipe	
	B. used for measureing gauge pressure of a liquid in pipe	
	C. used to control the flow of water for outlets of lakes	
	X D. used for measuring flow rate of liquid	
		Question ID : 1841223832
		,

Section: Discipline3

Q.1	Identify the effect on the property of concrete due to reduction in water cement ratio, with all other parameters remain constant, and ensuring proper compaction and placing of concrete.	
Ans	✓ A. Strength of concrete increases	
	X B. Workability of concrete increases	
	★ C. Strength concrete decreases	
	D. Change of water cement ratio doesnot affect the hardened and fresh concrete properties	
	Question ID : 1841223841	
0.2	Which of the following is not the assumption made in the analysis of trusses?	
Ans	A. The members of trusses are straight	
	X B. Forces are acting only at joints	
	✓ C. Members are not rigid	
	X D. Cross sectional area of members of truss is same through out their length	
	Question ID : 1841223853	
Q.3	While finding capacity distribution of reservoir, mass curve is drawn, The steepness in the mass curve of demand indicates	
Ans	A. Higher the storage capacity	
	✓ B. Higher the Rate of demand	
	C. Lower the rate of demand	
	X D. Lower the storage capacity	
	Question ID : 1841223854	
Q.4	Consider below statements with respect to workability of concrete and identify correct answer.	
	Statement A: Use of rounded aggregates makes the concrete harsh when compared to angular shaped aggregates. Statement B: Higher aggregate cement ratio make the concrete mix cohesive and fatty to give better workability	
Ans	X A. Statement A is correct and B is incorrect	
	X B. Both satements are correct	
	✓ C. Both statements are incorrect	
	X D. Statement B is correct and A is incorrect	
	Ougstion ID : 1941333944	
	Question ID : 1841223844	

Q.5	Which of the following is the correct expression for the calculation of power transmitted by a rotating shaft from one of its end to another?		
Ans			
	$\frac{\pi NT}{100}$ kW. Where, N is the number of revolutions per minute and T is average torque in kN-m.		
	${30}$ kW. Where, N is the number of revolutions per minute and T is average torque in kN-m.		
	$\frac{\pi NT}{360}$ kW. Where, N is the number of revolutions per minute and T is average torque in kN-m.		
	$\frac{\pi NT}{80}$ kW. Where, N is the number of revolutions per minute and T is average torque in kN-m.		
	0 11 10 1011000071		
	Question ID : 1841223851		
Q.6	At what pH value "Trichloramines" are formed in disinfection process of water?		
Ans	X A. between 1 to 3		
	✓ B. between 6 to 8		
	C. between 9 to 11		
	X D. greater than 7.0		
	Question ID : 1841223857		
Q.7	A cantilever beam of length 3 m carries a gradually varying load, with an intensity zero at		
Ans	free end (B) to 2 kN/m at fixed end (A). Calculate the value of shear force at A.  A3 kN		
	<b>★</b> B6 kN		
	<b>★</b> C4 kN		
	➤ D2 kN		
	Question ID : 1841223847		
Q.8	Following the IS standards, the permissible limit of total dissolved solids for drinking water in the absence of alternate source is		
Ans	<b>★</b> A. 500 mg/l		
	➤ B. 200 mg/l		
	✓ C. 2000 mg/l		
	➤ D. 5000 mg/l		
	Question ID : 1841223856		
Q.9	Which of the following product of cement hydration is responsible of flash setting?		
Ans			
	X B. Tetracalcium aluminoferrite		
	★ C. Di-calcium silicate		
	X D. Tri-calcium silicate		
	Question ID : 1841223839		

Q.10	O A rectangular strut of width 150 mm and thickness 120 mm carries a load of 180 kN. Calculate the minimum stress in the section if the load is eccentric by 20 mm in the direction of width and concentric in the direction of thickness. Ignore the self weight of the strut.	
Ans	X A. 8 MPa	
	<b>X</b> B. 6 MPa	
	X C. 4 MPa	
	✓ D. 2 MPa	
	Question ID : 1841223850	
Q.11	A rectangular beam 200 mm wide and 400 mm deep is simply supported over a span of 5 meters. If the beam is subjected to a uniformly distributed load of 4 kN/m, find the maximum bending stress in the beam.	
Ans	<b>X</b> A. 1251.64 kN/m <sup>2</sup>	
	<b>X</b> B. 3564.79 kN/m <sup>2</sup>	
	<b>★</b> C. 3156.72 kN/m <sup>2</sup>	
	✓ D. 2343.89 kN/m <sup>2</sup>	
	Question ID : 1841223848	
Q.12	Efficient transfer of stress between matrix and fibers in fiber reinforced concrete doesnot depend up on	
Ans	✓ A. Intensity of applied load	
	X B. Fiber geometry	
	★ C. Size and shape of the aggregates	
	X D. Type of fiber	
	Question ID : 1841223843	
Q.13	Consider below statements with respect to poisson's ratio and identify correct answer.  Statement A: When the deformation of the member is within the elastic limit, it is found that the ratio of lateral strain to longitudinal strain is constant for a given material.  Statement B: When the deformation of the member is plastic in nature, it is found that the ratio of lateral strain to longitudinal strain is constant for a given material.	
Ans	X A. Both statements are incorrect	
	X B. Statement B is correct and A is incorrect	
	✓ C. Statement A is correct and B is incorrect	
	X D. Both satements are correct	
	Question ID : 1841223846	
Q.14	Large number of cutoff valves are required under which type of below mentioned	
	distribution system?	
Ans	X A. Radial system	
	✓ B. Reticular system	
	C. Tree system	
	X D. Dead end system	
	Question ID : 1841223858	

## Q.15 Identify the incorrect statement with respect to various types of admixtures used in making concrete. Ans X A. Addition of Superplasticizers in making concrete increases the workability of concrete for a given water cement ratio. X B. Accelerating admixtures are added to concrete to increase the rate of early strength development in concrete. X C. Use of retarders in making concrete allows the concrete to be plastic and workable for a longer time than concrete without retarders. D. Addition of Superplasticizers in making concrete increases the water cement ratio required to attain a particular degree of workability. Question ID: 1841223845 Q.16 Consider below statements with respect to Euler's column theory and identify correct Statement A: The effect of direct stresses are neglected in the equation derived by Euler which is used study the stability of long columns. Statement B: Euler's formula can be used in the case of short columns. A. Statement B is correct and A is incorrect X B. Both statements are incorrect X C. Both satements are correct D. Statement A is correct and B is incorrect Question ID: 1841223852 Q.17 Consider below statements with respect to shear stress distribution in a symmetrical I sections due to bending action, and identify correct answer. Statement A: Shear stress developed in a I section will be maximum at the junction of flange and web. Statement B: Shear stress developed in a I section will be maximum at its neutral axis. A. Statement B is correct and A is incorrect Ans B. Both statements are incorrect C. Statement A is correct and B is incorrect X D. Both satements are correct Question ID: 1841223849 Q.18 An intake commonly used to obtain supply from lake is called as X A. Exposed intake B. Submerged intake X C. Dry intake D. Reservior intake Question ID: 1841223855 Q.19 Which of the following equipment is more suitable for transportation of concrete over a long distance, like 10 to 15 kms? X A. Belt conveyors B. Transit mixers X C. Skip and hoist X D. Pumps and pipelne Question ID: 1841223842

# Q.20 Which of the following condition should be satisfied, if an aggregate is said to be Elongated aggregate?

Ans A. The smallest dimension (thickness) of aggregate is smaller than 0.9 times their mean dimension (mean dimension referes to mean of sieve size through which a particular aggregate passing through and retainied on)

X B. The greatest dimension (length) of aggregate is greater than 2.5 times their mean dimension (mean dimension referes to mean of sieve size through which a particular aggregate passing through and retained on)

X C. The smallest dimension (thickness) of aggregate is smaller than 0.6 times their mean dimension (mean dimension referes to mean of sieve size through which a particular aggregate passing through and retainied on)

✓ D. The greatest dimension (length) of aggregate is greater than 1.8 times their mean dimension (mean dimension referes to mean of sieve size through which a particular aggregate passing through and retainied on)

Question ID: 1841223840

#### Section: Discipline4

#### Q.1 The type of oil paint where Aluminium powder is used as base is \_\_\_\_\_.

Ans X A. Copper paints

B. Aluminium paints

X C. Iron Paints

X D. Lead paints

Question ID: 1841223864

### Q.2 Which of the following is NOT a suggested consideration in ethical analysis and resolution?

Ans A. Determination of the key participants involved, based on the theoretical perspective of the client.

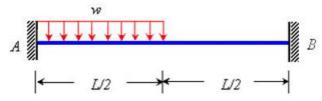
X B. Determination of the key participants involved, based on the cultural values of the client.

X C. Collect relevant cultural information.

X D. Use relational methods to reach an agreement on potential courses of action

Question ID: 1841223878

Q.3 Calculate the static indeterminacy of a fixed beam shown in below figure.



Ans

✓ A. 3

X B. 2

X C. 4

X D. 1

Question ID: 1841223871

Q.4 To carry out risk assessment and control in a construction industry, which of the following expression should be used in accordance with IS 18001 : 2007?

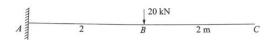
Ans

X A. Risk level = Exposure X Probability

- ✓ B. Risk level = Consequence X Exposure X Probability
- X C. Risk level = Consequence X Probability
- X D. Risk level = Consequence X Exposure

Question ID: 1841223874

Q.5 Calculate the slope at free end of a cantilever beam of length 4 m shown in below figure. Take EI as constant throughout its length.



Ans

$$\checkmark$$
 A.  $-\frac{40}{EI}$ 

$$\times$$
 B.  $-\frac{60}{EI}$ 

$$\times$$
 c.  $-\frac{25}{EI}$ 

$$\times$$
 D.  $-\frac{15}{EI}$ 

Question ID: 1841223869

Q.6 According to minimum wages act 1948, cost of living index number is related to \_\_\_\_\_\_.

Ans

- X A. Minimum rates of wages for unscheduled employment
- B. Minimum rates of wages for scheduled employment
- X C. Maximum rates of wages for scheduled employment
- X D. Maximum rates of wages for unscheduled employment

Question ID : 1841223875

Q.7 In consolidation of soil, the Secondary consolidation of soil leads to \_\_\_\_\_.

Ans X A. Greater amount of settlement compared to primary consolidation

- X B. Expansion of soil particles
- X C. Dissipation of pore water pressure
- D. Compression and rearrangement of particles

Question ID: 1841223868

Q.8	In the manufacture of cement by wet process, what is the temperature a formed are converted into clinker?"	t which the nodules
Ans	<b>X</b> A. 1800 − 2000 °C	
	<b>✓</b> B. 1500 − 1600 °C	
	<b>X</b> C. 800 − 1200 °C	
	<b>X</b> D. 1000 − 1200 °C	
		Question ID : <b>1841223861</b>
Q.9	According to IS-1077 (specifications common burnt clay building bricks limiting Percentage of water absorption for class 25 bricks?	), what is the
Ans	<b>★</b> A. 7%	
	<b>✓</b> B. 15%	
	<b>★</b> C. 10%	
	<b>★</b> D. 5%	
		Question ID: 1841223860
0.10	According to IC - 712 electrification of lime Class P lime is known as	
Ans	According to IS: 712 classification of lime, Class B lime is known as  A. Semi-Hydraulic lime	•
	X B. Magnesium lime	
	X C. Fat lime	
	X D. Dolomitic lime	
		Question ID : 1841223862
Q.11	Identify the acid type of Igneous rock, from the below list rocks.	
Ans	✓ A. Rhyolite	
	X B. Dolerite X C. Peridotite	
	X D. Gabbro	291/1
		Question ID : 1841223859
		Question D . 1041223639
Q.12	After kiln seasoning/drying of wood, the loss in the strength of the wood be more than	usually should not
Ans	<b>★</b> A. 25%	
	<b>✓</b> B. 10%	
	<b>★</b> C. 40%	
	<b>★</b> D. 2%	
		0 11 12 12 12 12
		Question ID : <b>1841223863</b>

	The employee state insurance ACT, 1948 is to provide certain benefits it	elated to
Ans	X A. maternity and employment injury only	
	B. sickness, maternity and employment injury	
	C. sickness and employment injury only	
	X D. sickness and maternity only	
		Outstier ID : 1041022076
		Question ID : <b>1841223876</b>
Q.14	A symmetrical parabolic three hinded arch of span 30 m and rise 5 m ca distributed load of intensity 20 kN/m starting from the central hinge and towards right hinge. Calculate the support reaction at left support development.	d runs over for 10 m
Ans	X A. 85.8 kN	
	<b>★</b> B. 133.3 kN	
	<b>★</b> C. 114.2 kN	
	✓ D. 66.7 kN	
		Quarties ID : 1941222972
		Question ID : <b>1841223873</b>
Q.15	If the liquid limit and plastic limit of fine grained soil sample are found t	
Ans	respectively. Identify the type of soil based on unified soil classification  A. ML	system.
7.11.0	✓ B. CL	
	<b>★</b> C. Cl	
	X D. MI	
	P. D. IVII	
		Question ID : <b>1841223867</b>
	- 40 11 1 11 11 11 11 11 11 11	
Q.16	Type of Soil, deposited at the bottom of lakes are called as?	
Δne		
Ans	X A. Peat	
Ans	X A. Peat X B. Loess	
Ans	<ul><li>★ A. Peat</li><li>★ B. Loess</li><li>★ C. Alluvial soils</li></ul>	247
Ans	X A. Peat X B. Loess	247
Ans	<ul><li>★ A. Peat</li><li>★ B. Loess</li><li>★ C. Alluvial soils</li></ul>	Question ID : 1841223865
	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>♦ D. Lacustrine soils</li> </ul>	
	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>★ D. Lacustrine soils</li> </ul> Consider below statements with respect to carry over factor used in momethod and identify correct answer. Statement A: The carry over factor is always 1/2 for a prismatic section fixed.	ment distribution , when the far end is
	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>★ D. Lacustrine soils</li> </ul> Consider below statements with respect to carry over factor used in momethod and identify correct answer. Statement A: The carry over factor is always 1/2 for a prismatic section fixed. Statement B: For a member with a pinned end opposite (where there are connected to that pin) the carry over factor is zero.	ment distribution , when the far end is
	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>★ D. Lacustrine soils</li> </ul> Consider below statements with respect to carry over factor used in momethod and identify correct answer. Statement A: The carry over factor is always 1/2 for a prismatic section fixed. Statement B: For a member with a pinned end opposite (where there are connected to that pin) the carry over factor is zero. ★ A. Statement B is correct and A is incorrect	ment distribution , when the far end is
Q.17	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>★ D. Lacustrine soils</li> </ul> Consider below statements with respect to carry over factor used in momethod and identify correct answer. Statement A: The carry over factor is always 1/2 for a prismatic section fixed. Statement B: For a member with a pinned end opposite (where there are connected to that pin) the carry over factor is zero. ★ A. Statement B is correct and A is incorrect ★ B. Statement A is correct and B is incorrect	ment distribution , when the far end is
Q.17	<ul> <li>★ A. Peat</li> <li>★ B. Loess</li> <li>★ C. Alluvial soils</li> <li>★ D. Lacustrine soils</li> </ul> Consider below statements with respect to carry over factor used in momethod and identify correct answer. Statement A: The carry over factor is always 1/2 for a prismatic section fixed. Statement B: For a member with a pinned end opposite (where there are connected to that pin) the carry over factor is zero. ★ A. Statement B is correct and A is incorrect ★ B. Statement A is correct and B is incorrect ★ C. Both satements are correct	ment distribution , when the far end is
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	18 Calculate the apparent specific gravity of a soil sample, if its bulk unit weight = 16 kN/m <sup>3</sup> , dry unit weight is 14 kN/m <sup>3</sup> and the unit weight of water = 10 kN/m <sup>3</sup>	
Ans	<b>★</b> A. 1.3	
	<b>★</b> B. 1.4	
	<b>★</b> C. 1.5	
	<b>✔</b> D. 1.6	
		Outpution ID : 4044000055
		Question ID : <b>1841223866</b>
Q.19	According to ISO 9004, considering diversity is an action to considering diversity is an action to consider accompetitive factors comes under	der when addressing
Ans		
	→ B. People	
	★ C. Pricing	
	X D. Processes	
		Question ID : <b>1841223877</b>
Q.20	Two wheel loads of magnitude 100 kN (Leading load) and 200 kN on a simply supported girder beam of span 16 m from left to right, negative and positive shear force at a section 4 m from the left end	Calculate the maximum
Ans	X A. 50 kN, 150 kN	
	<b>★</b> B. 25 kN, 200 kN	
	<b>X</b> C. 62.5 kN, 215.5 kN	
	✓ D. 50 kN, 212.5 kN	
		0 11 10 10 10 10
		Question ID: 1841223870
		Question ID: 1841223870
Section	on : Discipline5	Question ID: 1841223870
	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V	d for a 100 meter length t at the two ends being
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Q.1	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V A. 1700.00 cu m	d for a 100 meter length t at the two ends being
Q.1	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V A. 1700.00 cu m  B. 1500.00 cu m	d for a 100 meter length t at the two ends being
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Q.1	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V A. 1700.00 cu m  B. 1500.00 cu m  C. 1800.00 cu m  D. 2400.00 cu m  A person purchased a machinery at a cost of Rs. 50,000, Calculate	Question ID: 1841223895
Q.1 Ans	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V A. 1700.00 cu m  B. 1500.00 cu m  C. 1800.00 cu m  D. 2400.00 cu m  A person purchased a machinery at a cost of Rs. 50,000, Calculate sinking fund to be accumulated at the end of 10 years, if the scrap machinery is 10%.	Question ID: 1841223895
Q.1 Ans	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V A. 1700.00 cu m  B. 1500.00 cu m  C. 1800.00 cu m  D. 2400.00 cu m  A person purchased a machinery at a cost of Rs. 50,000, Calculate sinking fund to be accumulated at the end of 10 years, if the scrap machinery is 10%.  A. Rs. 50,000	Question ID: 1841223895
Q.1 Ans	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V   X A. 1700.00 cu m  B. 1500.00 cu m  C. 1800.00 cu m  D. 2400.00 cu m  A person purchased a machinery at a cost of Rs. 50,000, Calculate sinking fund to be accumulated at the end of 10 years, if the scrap machinery is 10%.  A. Rs. 50,000  B. Rs. 4000	Question ID: 1841223895
Q.1 Ans	Calculated the quantity of earthwork by mid sectional area method cutting for a portion of canal in an uniform ground the depth of cut 1.8 m and 2.2 m. The bed width is 5 meter and side slopes 2H: 1V    A. 1700.00 cu m  B. 1500.00 cu m  C. 1800.00 cu m  D. 2400.00 cu m  A person purchased a machinery at a cost of Rs. 50,000, Calculate sinking fund to be accumulated at the end of 10 years, if the scrap machinery is 10%.  A. Rs. 50,000  B. Rs. 4000  C. Rs. 45,000	Question ID: 1841223895

Q.3	The keyboard shortcut used to measure the distance in AutoCADD software is	
Ans	✓ A. DI	
	<b>X</b> B. DA	
	<b>X</b> C. DS	
	<b>X</b> D. DE	
		Question ID : <b>1841223880</b>
Q.4	Consider below statements with respect to Double Lines for drawing pla identify correct answer. Statement A: double lines can be drawn as straight segments. Statement B: double lines cannot be drawn as arc segments.	ns in Autocadd and
Ans	✓ A. Statement A is correct and B is incorrect	
	X B. Statement B is correct and A is incorrect	
	★ C. Both satements are correct	
	X D. Both statements are incorrect	
		Question ID : <b>1841223881</b>
Q.5	Which of the following is the correct unit of measurement for "expansion construction joint"?	n, contration or
Ans	X A. Cubic meter	
	<b>★</b> B. Numbers	
	<b>★</b> C. Square meter	
	✓ D. Running meter	
		Question ID : <b>1841223894</b>
Q.6	According to IS 800 : 2007, under classication of cross-sections, Class	1 sections are also
Ans	called as  ✓ A. Plastic	
Allo	× B. compact	
	C. Semi compact	
	X D. slender	
	D. Siender	
		Question ID : <b>1841223888</b>
Q.7 Ans	Which of the following type of foundation is classified as deep footing/f  A. Stepped isolated footing	oundation?
Allo	X B. Mat foundation	
	✓ C. Caisson foundation	
	D. Combined footing	
		Question ID : <b>1841223886</b>

Q.8	Which of the following type of estimate is a detailed estimate?		
Ans	X A. Approximate quantity method estimate		
	➤ B. Plinth area estimate		
	✓ C. Revised estimate		
	X D. Cube rate estimate		
		Question ID : 1841223893	
		(400.00.10.10.10.200.10	
Q.9	A building requires 5 RCC beams of size 0.5 m depth, 0.2 m thickness a Estimate the quantity of steel reinforcement required, if the steel reinforcement required, if the steel reinforcement is 1% by their gross volume. Consider that mass density of steel.	programment to be	
Ans	✓ A. 1.9625 quintal		
	X B. 0.956 quintal		
	X C. 1.248 quintal		
	X D. 2.789 quintal		
		0. 11. 15. 404400004	
		Question ID : 1841223896	
Q.10	According to IS 800 : 2007, the maximum effective slenderness ratio for	or a member carrying	
Ans	compressive loads resulting from dead loads and imposed loads is  A. 340	-·	
AllS	X B. 100		
	<b>★</b> C. 230		
	<b>✓</b> D. 180		
		Question ID : 1841223891	
Q.11	Q.11 Anti corrosion coating to dowel bars used at the location of construction joints, provided in rigid pavements can be done using		
Ans			
	X B. Thermoplastic coating		
	C. Epoxy coating		
	✗ D. Vinyl resin coating		
		Question ID : 1841223885	
Q.12 Ans	Q.12 Sliding length of rubber shoe in friction coefficient test on Coarse aggregate is  Ans XA. 55 mm		
	<b>X</b> B. 85 mm		
	<b>★</b> C. 65 mm		
	<b>✓</b> D. 75 mm		
		Question ID : 1841223884	

Q.13	According to IS 800: 2007, in the design of tension members, for preliminary sizing, the rupture strength of net section is approximated as $T_{dn} = \alpha A_n f_u / \gamma_{ml}$ . The value of co-efficient $\alpha$ to be used for one or two bolts is Where, $A_n =$	
	net area of the total cross-section; $f_u$ = ultimate stress of the material; $\gamma_{ml}$ = partial safety factor for failure	at ultimate
Ans	stress.  X A. 0.1	
	<b>★</b> B. 0.3	
	<b>✓</b> C. 0.6	
	<b>X</b> D. 1.5	
		Question ID : <b>1841223890</b>
Q.14	4 The phenomenon of lamellar tearing occurs at which type of connections?	
Ans	s 💞 A. Welded steel connection	
	X B. Bolted steel connection	
	C. Pre-stressed concrete connection	
	➤ D. Reinforced cement concrete connection	
		Question ID : <b>1841223889</b>
		Question D . 1041223009
Q.15	5 Consider below statements with respect to terms used in valuation and identify co	prrect
Ans	dismantled is known as salvage value.  Statement B: The amount value which can be obtained at any particular time from market if the property is put for sale is known as market value.  **A. Statement A is correct and B is incorrect  **B. Both satements are correct  **C. Both statements are incorrect  **D. Statement B is correct and A is incorrect	Question ID: <b>1841223897</b>
Q.16	6 Secondary road system as per 3rd 20 year road plan in India consists of	7
Ans		
	B. State Highway and Major District Roads	
	C. National & State Highways	
	X D. Express ways and state Highways	
		Question ID: 1841223882
Q.17	7 Stopping sight distance value recommended by IRC for a Design speed of 80 Kmp	oh is
Ans	s 🕜 A. 120 m	
	<b>X</b> B. 90 m	
	X C. 180 m	
	<b>★</b> D. 110 m	
		Question ID : <b>1841223883</b>

