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Participant ID	
Participant Name	
Test Center Name	
Test Date	13/08/2021
Test Time	5:30 PM - 7:30 PM
Subject	DIPLOMA TRAINEE (CIVIL)

Section : General English

Q.1 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

The statements of the police officers and (the civilian witnesses were also disposed).

- Ans
- A. the civilian witness were also disposed off
 - B. No correction required
 - C. the civilian witnesses were also disposed of
 - D. the civilian witnesses has also been disposed

Question ID : 481843717

Status : Answered

Chosen Option : B

Q.2 A sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

The organiser said, "This year they will have audiences splitting their sides with laughter with the crazy stand-up acts".

- Ans
- A. The organiser said that this year they will be having the audiences splitting their sides with laughter with the crazy stand-up acts.
 - B. The organiser said that this year they would have had the audiences splitting their sides with laughter with the crazy stand-up acts.
 - C. The organiser said that this year they would have the audiences splitting their sides with laughter with the crazy stand-up acts.
 - D. The organiser said that this year they will have had the audiences splitting their sides with laughter with the crazy stand-up acts.

Question ID : 481843721

Status : Not Answered

Chosen Option : --

Q.3 Select the word that is SYNONYM (similar in meaning) to the word given below.

aggrandize

- Ans
- A. exalt
 - B. censure
 - C. abase
 - D. degrade

Question ID : 481843714
Status : Not Answered
Chosen Option : --

Q.4 Fill in the blank with the most appropriate choice.

As we mentioned earlier, bluebirds prefer open rural areas with scattered trees and _____ ground cover.

- Ans
- A. coarse
 - B. hoarse
 - C. sparse
 - D. parse

Question ID : 481843716
Status : Answered
Chosen Option : B

Q.5 Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.

- Ans
- A. efficacy
 - B. effecacy
 - C. effacacy
 - D. efficacy

Question ID : 481843709
Status : Answered
Chosen Option : B

Q.6 The question below consist of a set of labelled sentences. Out of four options given, select the most logical order of the sentences which form a paragraph.

In 1988, after obtaining a Canadian passport, Musk left South Africa because he was unwilling to support apartheid through compulsory military service and because he sought the greater economic opportunities available in the United States.

P. Musk attended Queen's University in Kingston, Ontario, and in 1992 he transferred to the University of Pennsylvania, Philadelphia, where he received bachelor's degrees in physics and economics in 1997.

Q. In 1999 Zip2 was bought by the computer manufacturer Compaq for \$307 million, and Musk then founded an online financial services company, X.com, which later became PayPal, which specialized in transferring money online.

R. He enrolled in graduate school in physics at Stanford University in California, but he left after only two days because he felt that the Internet had much more potential to change society than work in physics.

S. In 1995 he founded Zip2, a company that provided maps and business directories to online newspapers.

The online auction eBay bought PayPal in 2002 for \$1.5 billion.

- Ans
- A. RPQS
 - B. PRSQ
 - C. PSRQ
 - D. QPRS

Question ID : 481843720
Status : Not Answered
Chosen Option : --

Q.7 Select the most appropriate meaning of the given idiom.

Every cloud has a silver lining

- Ans
- A. Almost everything and anything has been included.
 - B. Something that ends at the last minute or last few seconds.
 - C. Every difficult or sad situation has a comforting or more hopeful aspect, even though this may not be immediately apparent.
 - D. Be optimistic, even difficult times will lead to better days.

Question ID : 481843711
Status : Answered
Chosen Option : C

Q.8 Select the word that is ANTONYM (opposite in meaning) to the word given below.

exacerbate

- Ans
- A. augment
 - B. appease
 - C. impair
 - D. intensify

Question ID : 481843715
Status : Not Answered
Chosen Option : --

Q.9 Select the most appropriate meaning of the given idiom.

Let bygones be bygones

- Ans
- A. To avoid restarting a conflict.
 - B. To politely ask for someone's full attention
 - C. To forget about a disagreement or argument.
 - D. To share a secret that wasn't suppose to be shared.

Question ID : 481843712
Status : Answered
Chosen Option : D

Q.10 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

This is not to disparage

P. a day when such a
Q. read would hold even
R. the editor and her magazine,
S. it's just that I can't ever see

a scrap of appeal.

- Ans
- A. RPSQ
 - B. RSPQ
 - C. RQPS
 - D. RQSP

Question ID : 481843719
Status : Answered
Chosen Option : C

Q.11 A sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

Just wait for your que, the director will give you the instructions.

- Ans
- A. Just wait for your que, you will be given the instructions by the director.
 - B. Just wait for your que, you will have given the instructions by the director.
 - C. You will be giving the instructions just wait for your que.
 - D. You will have been given the instructions just wait for your que.

Question ID : 481843722
Status : Answered
Chosen Option : C

Q.12 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.

The one where he flies a helicopter/ over the Mount Everest and single-handedly/ stops a raving lunatic taking over the world!

- Ans
- A. No Error
 - B. over the Mount Everest and single-handedly
 - C. stops a raving lunatic taking over the world!
 - D. The one where he flies a helicopter

Question ID : 481843723
Status : Not Answered
Chosen Option : --

Q.13 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

Why would you not

P. is a miscellany
Q. knowing that there
R. construe it that way
S. of arrangements in

the States?

- Ans
- A. RQPS
 - B. PQRS
 - C. SPQR
 - D. SRQP

Question ID : 481843718
Status : Not Answered
Chosen Option : --

Q.14 Select the most appropriate 'one word' for the expressions given below.

An act of treating a holy place or object in a way that does not show proper respect

- Ans
- A. Infidelity
 - B. Sacrilege
 - C. Hypergamy
 - D. Restitution

Question ID : 481843710
Status : Not Answered
Chosen Option : --

Q.15 Select the most appropriate meaning of the given idiom.

Queer the pitch

- Ans
- A. Very excessive
 - B. Destroy or ruin a plan.
 - C. To go full speed, especially while driving a vehicle.
 - D. A deal that is made without first examining it.

Question ID : 481843713
Status : Not Answered
Chosen Option : --

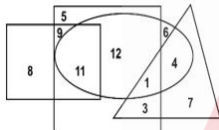
Section : Reasoning

Q.1 एक निश्चित कोड भाषा में, यदि कलम को पेंसिल, पेंसिल को मार्कर, मार्कर को खड़िया, खड़िया को ग्रीज, और ग्रीज को ब्रश कहा गया है, तो व्हाइटबोर्ड पर लिखने के लिए क्या प्रयोग किया जाता है?

- Ans
- A. पेंसिल
 - B. मार्कर
 - C. खड़िया
 - D. ब्रश

Question ID : 481843734
Status : Answered
Chosen Option : C

Q.2 दिए गए प्रश्न में, कुछ संख्याएँ केवल एक आकृति के लिए उभयनिष्ठ हैं, कुछ केवल दो आकृतियों के लिए उभयनिष्ठ हैं, कुछ केवल तीन आकृतियों के लिए उभयनिष्ठ हैं। उन संख्याओं का योग ज्ञात करें जो केवल किन्हीं दो आकृतियों में उभयनिष्ठ हैं।



- Ans
- A. 12
 - B. 26
 - C. 28
 - D. 30

Question ID : 481843736
Status : Not Answered
Chosen Option : --

Q.3 Find the wrong term from the series.

5, 15, 45, 125, 405, 1215

- Ans
- A. 15
 - B. 405
 - C. 1215
 - D. 125

Question ID : 481843735
Status : Answered
Chosen Option : D

Q.4 Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

- Ans
- A. SQRP
 - B. FDEC
 - C. MKJL
 - D. XVWU

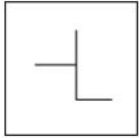
Question ID : 481843731
Status : Answered
Chosen Option : C

Q.5 वह सबसे छोटी संख्या कौन सी है जिससे 3920 को भाग करने पर पूर्ण वर्ग प्राप्त होता है?

- Ans
- A. 4
 - B. 2
 - C. 3
 - D. 5

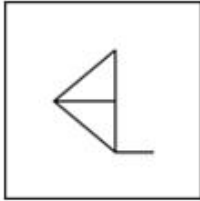
Question ID : 481843726
Status : Answered
Chosen Option : D

Q.6 From the given answer figures, select the one in which the question figure is hidden/embedded.



Ans

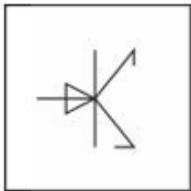
✓ A.



✗ B.



✗ C.



✗ D.



Question ID : 481843729
Status : Answered
Chosen Option : A

Q.7 Select the pair that is related on the same basis to the pair given in the question.

22 : 110 :: ?

✗ A. 8 : 32

✗ B. 11 : 38

✓ C. 122 : 610

✗ D. 49 : 294

Question ID : 481843727
Status : Answered
Chosen Option : C

Q.8 Select the option that is related to the third term on the same basis as the second term is related to the first term.

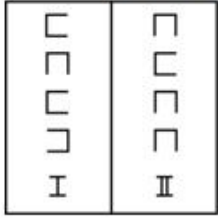
KOR : IMP :: ETM : ?

- Ans
- A. CRK
 - B. NIB
 - C. DSL
 - D. FUN

Question ID : 481843738
Status : Answered
Chosen Option : A

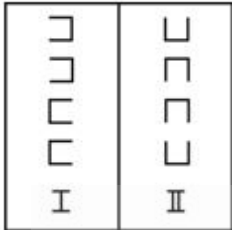


Q.9 Choose the pair different from the pair given in the question figure.

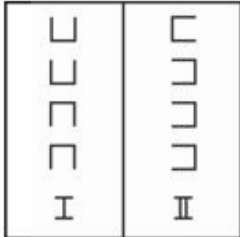


Ans

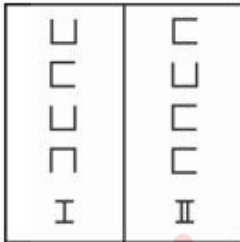
A.



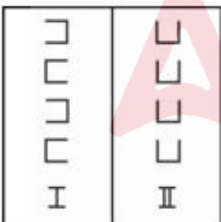
B.



C.

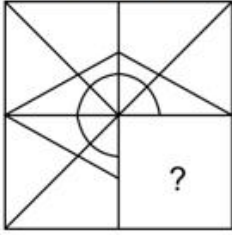


D.

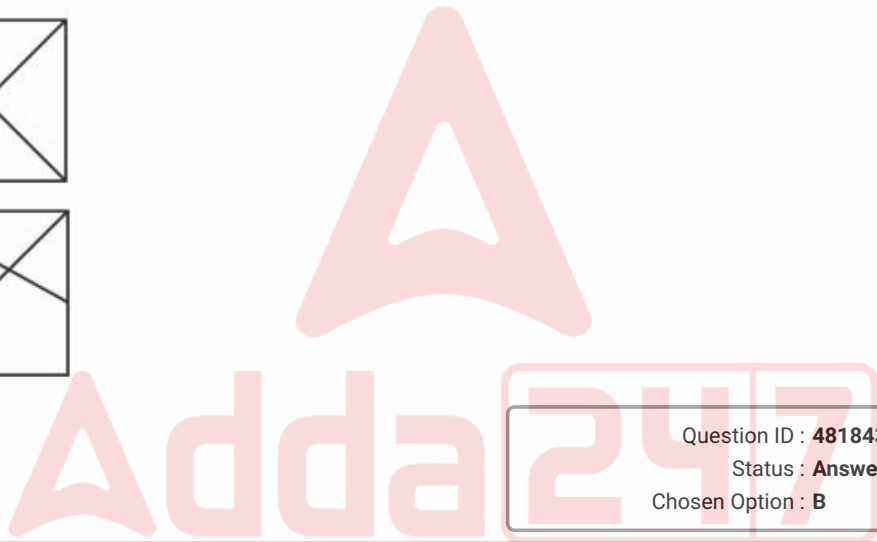
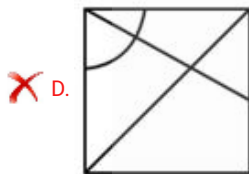
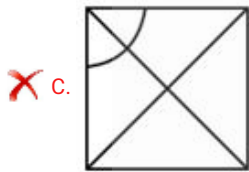
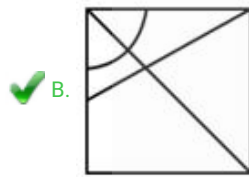
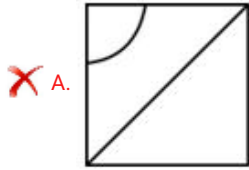


Question ID : 481843732
Status : Answered
Chosen Option : B

Q.10 Which of the following answer figure completes the question figure?

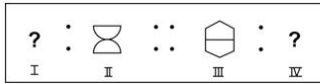


Ans



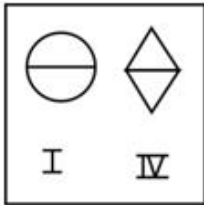
Question ID : 481843725
 Status : Answered
 Chosen Option : B

Q.11 In the following question, there are four figures marked I, II, III and IV. Select a figure from the answer set which would replace the question marks given in the question figure such that figure I is related to figure II in the same way as figure III is related to figure IV.

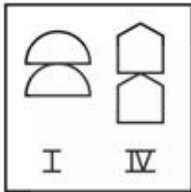


Ans

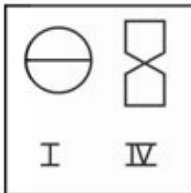
A.



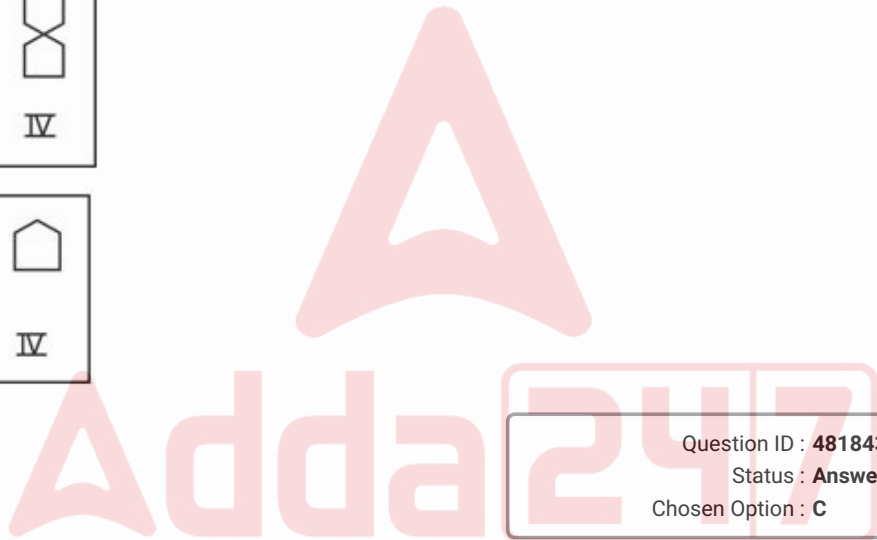
B.



C.

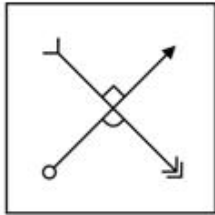


D.



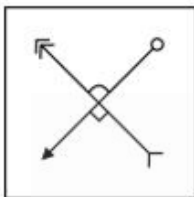
Question ID : 481843730
Status : Answered
Chosen Option : C

Q.12 Find the water image of the following figure.

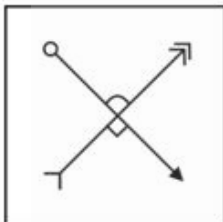


Ans

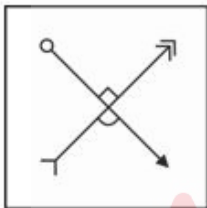
A.



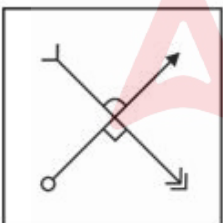
B.



C.

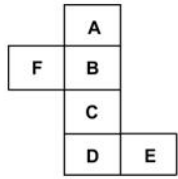


D.

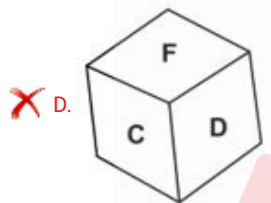
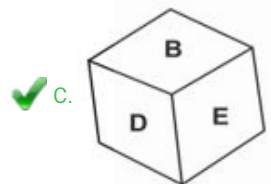
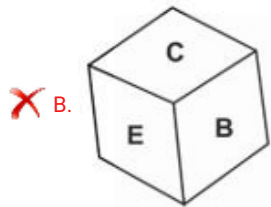
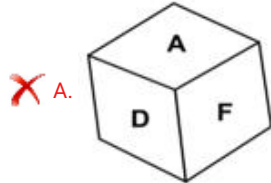


Question ID : 481843733
 Status : Answered
 Chosen Option : A

Q.13 Which of the following figures CANNOT be formed on folding the given cube in the question?



Ans



Question ID : 481843737

Status : Answered

Chosen Option : C

Q.14 आज मेघा का जन्मदिन है। आज से एक वर्ष बाद, उसकी आयु दोगुनी हो जायेगी जितनी आठ वर्ष पहले थी। आज मेघा की आयु कितनी है?

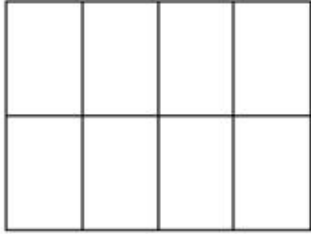
- Ans
- A. 16 वर्ष
 - B. 17 वर्ष
 - C. 22 वर्ष
 - D. 28 वर्ष

Question ID : 481843724

Status : Answered

Chosen Option : B

Q.15 दी गई आकृति में समान्तर चतुर्भुजों की संख्या की गणना करें।



- Ans
- A. 26
 - B. 27
 - C. 28
 - D. 30

Question ID : 481843728
Status : Answered
Chosen Option : D

Section : Quantitative Aptitude

Q.1 What is the difference between the range of temperatures of the five cities and the average of temperatures of the five cities?

City Name	Temperature in celcius
Kolkata	30
Mumbai	34
Delhi	40
Lucknow	41
Kanpur	35

- Ans
- A. 21 degree Celsius
 - B. 23 degree Celsius
 - C. 27 degree Celsius
 - D. 25 degree Celsius

Question ID : 481843739
Status : Answered
Chosen Option : D

Q.2 'b', 'a' से 25% अधिक है और 'c', 'b' से 100% अधिक है। यदि 'a' का मान $\frac{4}{5}$ है, तो 'c' का मान क्या है?

- Ans
- A. 1
 - B. 2
 - C. 1.75
 - D. 1.5

Question ID : 481843746
Status : Answered
Chosen Option : B

Q.3 480 में कितने धनात्मक पूर्णांक गुणक हैं?

- Ans A. 18
 B. 24
 C. 12
 D. 5

Question ID : 481843758
Status : Answered
Chosen Option : C

Q.4 एक पति और पत्नी की औसत आयु 30 वर्ष है जब उनके यहाँ बच्चे का जन्म होता है। 3 वर्ष बाद परिवार की औसत आयु (पति, पत्नी और बच्चा) की तुलना में 3 वर्ष पहले परिवार की औसत आयु में कितना अंतर है?

- Ans A. 3
 B. 10
 C. 17
 D. 7

Question ID : 481843757
Status : Answered
Chosen Option : B

Q.5 भूमि के वर्गाकार भूखंड (प्लोट) में साइड 50 m हैं। सभी कोनों से 2 m साइड वाले छोटे वर्गाकार भूखंड (प्लोट) हटा दिए जाते हैं। शेष भूखंड (प्लोट) का क्षेत्रफल क्या है?

- Ans A. 2,340 sq. m
 B. 48 sq. m
 C. 2,492 sq. m
 D. 2,484 sq. m

Question ID : 481843741
Status : Answered
Chosen Option : D

Q.6 6,000 रुपए मूल्य के उत्पाद को किस मूल्य पर अंकित किया जाना चाहिए यदि 10% की छूट के बाद, विक्रेता 20% का लाभ अर्जित करना चाहता है?

- Ans A. 8,000 रुपए
 B. 7,200 रुपए
 C. 7,500 रुपए
 D. 6,600 रुपए

Question ID : 481843754
Status : Answered
Chosen Option : A

Q.7 यदि अमन किसी कार्य को अकेले 5 दिनों में कर सकता है, सागर अकेले कार्य को 10 दिनों में कर सकता है और सतीश अकेले कार्य को 15 दिनों में कर सकता है, तो ऐसे 11 कार्यों को पूरा करने में उन्हें कितने दिन लगेंगे ?

- Ans
- A. 27 दिन
 - B. 29 दिन
 - C. 30 दिन
 - D. 28 दिन

Question ID : 481843743
Status : Answered
Chosen Option : C

Q.8 यदि $y = (x + 45)/(x - 3)$, जहां x और y पूर्णांक हैं, तो x के किस मान के लिए y अपरिभाषित है?

- Ans
- A. -3
 - B. 45
 - C. -45
 - D. 3

Question ID : 481843742
Status : Answered
Chosen Option : D

Q.9 If $x = 2356\#77$ is divisible by 11, what should be the value of '#'?

- Ans
- A. 3
 - B. 6
 - C. 2
 - D. 4

Question ID : 481843752
Status : Answered
Chosen Option : C

Q.10 भारत और ऑस्ट्रेलिया के बीच एक T20I मैच में, भारत को 10 ओवर में 120 रन बनाने होंगे। अगले 3 ओवर में भारत ने 50 रन बनाए। यदि रन के दर को उस औसत रन के रूप में परिभाषित किया गया है जिसे मैच जीतने के लिए बनाया जाना चाहिए, तो भारत को अंतिम 7 ओवरों में किस रन के दर को बनाए रखना होगा?

- Ans
- A. प्रति ओवर 9 रन
 - B. प्रति ओवर 8 रन
 - C. प्रति ओवर 10 रन
 - D. प्रति ओवर 11 रन

Question ID : 481843748
Status : Answered
Chosen Option : C

Q.11 A, कारखाने के कर्मचारी को कुल 100 उत्पादों का उत्पादन करने की आवश्यकता है। इस उत्पाद के प्रत्येक टुकड़े के उत्पादन के लिए उसे 10 रुपए मिलते हैं। दिन 1 पर, उसे जो उत्पादन करना था उसके 1/10वें भाग का उत्पादन करता है। दिन 2 पर, वह शेष उत्पादों की संख्या के 1/10वें भाग का उत्पादन करता है। कुल मिलाकर, दिन 2 के अंत तक A ने कितनी आय अर्जित की होगी?

- Ans
- A. 210 रुपए
 - B. 180 रुपए
 - C. 190 रुपए
 - D. 200 रुपए

Question ID : 481843744

Status : Not Answered

Chosen Option : --

Q.12 20,000 रुपए पर ब्याज की राशि में क्या अंतर है यदि इसे 2 वर्ष के लिए वार्षिक चक्रवृद्धि पर 10% चक्रवृद्धि ब्याज और साधारण ब्याज के तहत 10% ब्याज पर निवेश किया जाता है?

- Ans
- A. 200 रुपए
 - B. 0 रुपए
 - C. 100 रुपए
 - D. 2,000 रुपए

Question ID : 481843740

Status : Answered

Chosen Option : A

Q.13 10,000 रुपए की राशि पर चक्रवृद्धि ब्याज के तहत 2 वर्ष में 4,400 रुपए का ब्याज अर्जित होता है। वार्षिक चक्रवृद्धि पर ब्याज की दर क्या होगी?

- Ans
- A. 21%
 - B. 18%
 - C. 10%
 - D. 20%

Question ID : 481843753

Status : Answered

Chosen Option : D

Q.14 4/12, 5/16 और 8/20 का लघुत्तम समापवर्तक क्या है?

- Ans
- A. 20
 - B. 10
 - C. 15
 - D. 12

Question ID : 481843742

Status : Answered

Chosen Option : B

Q.15 100 अंकों की परीक्षा में, एक छात्र 35 अंक प्राप्त करता है और 5 अंकों से अनुत्तीर्ण हो जाता है। यदि कोई अन्य छात्र उत्तीर्ण अंकों से 50% अधिक अंक प्राप्त करना चाहता है, तो उसे कितने अंक प्राप्त करने होंगे?

- Ans A. 60
 B. 55
 C. 50
 D. 45

Question ID : 481843755
 Status : Answered
 Chosen Option : A

Q.16 8 राजमिस्त्री प्रतिदिन 8 घंटे काम करके 20 दिनों में एक दीवार बना सकते हैं। यदि ये 10 राजमिस्त्री भी 8 घंटे प्रतिदिन कार्य करते हैं तो 10 राजमिस्त्री उसी दीवार का निर्माण कितने दिनों में करेंगे?

- Ans A. 10 दिन
 B. 16 दिन
 C. 12 दिन
 D. 14 दिन

Question ID : 481843756
 Status : Answered
 Chosen Option : B

Q.17 The ratio of weights of A, B, C and D is 1 : 2 : 3 : 4. If the difference between the weights of D and A is 30 kg, what is the cumulative weight of A, B, C and D?

- Ans A. 100 kg
 B. 90 kg
 C. 80 kg
 D. 110 kg

Question ID : 481843751
 Status : Answered
 Chosen Option : A

Q.18 एक व्यापारी अपने ग्राहकों को त्योहार ऑफर देता है। हर 10 परिधान की खरीद पर वह एक परिधान मुफ्त देता है। यह मानते हुए कि व्यापारी के पास समतल मूल्य के साथ एक ही प्रकार का परिधान है, छूट का प्रतिशत क्या है?

- Ans A. 9.09%
 B. 12.5%
 C. 11.11%
 D. 10%

Question ID : 481843749
 Status : Not Answered
 Chosen Option : --

Q.19 A car covers a 200 km journey between A and B in 10 hours. One day, after covering 100 km, the car broke down for an hour. Post repairing it, the speed of the car was increased in such a way that car covered the entire journey in its usual 10 hours. What was the speed of the car in the last 100 km?

- Ans
- A. 23 km/hr
 - B. 20km/hr
 - C. 22 km/hr
 - D. 25 km/hr

Question ID : 481843745
Status : Answered
Chosen Option : D

Q.20 आकाश हर 2 दिन में व्यायाम करता है और अपने भार को 1 kg से कम करता है। जब उसने व्यायाम करना शुरू किया तब उसका भार 60 kg था। आज आकाश का भार 55 kg है। उसने कितने दिन व्यायाम किया?

- Ans
- A. 10 दिन
 - B. 9 दिन
 - C. 7 दिन
 - D. 8 दिन

Question ID : 481843750
Status : Answered
Chosen Option : A

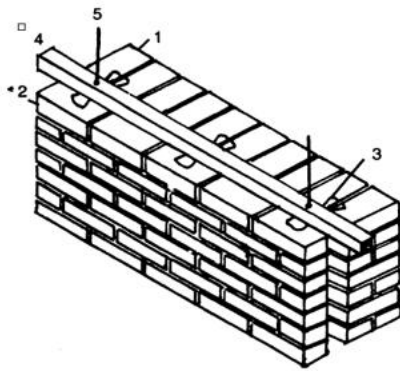
Section : Civil Engineering

Q.1 Which of the following partition walls are either solid or hollow and can be prepared from tera-cotta?

- Ans
- A. Brick partition walls
 - B. Glass partitions walls
 - C. Timber partition walls
 - D. Clay block partition walls

Question ID : 481843871
Status : Answered
Chosen Option : D

Q.2



What does item no 3 represents in the above given figure of construction of cavity walls?

- Ans
- A. Outer wall
 - B. Batten lifting device
 - C. Wall ties
 - D. Sill

Question ID : 481843876
Status : Answered
Chosen Option : A

Q.3 Lap splices shall be considered as staggered if the centre to centre distance of the splices is NOT less than _____ the lap length.

- Ans
- A. 2 times
 - B. 1.2 times
 - C. 1.3 times
 - D. 1.5 times

Question ID : 481843836
Status : Answered
Chosen Option : D

Q.4 The method which can be used for determination of very high suctions of soil, of the order of several thousands of kN/m^2 is known as:

- Ans
- A. Tensiometer method
 - B. Pycnometer method
 - C. Centrifuge method
 - D. Suction plate method

Question ID : 481843779
Status : Answered
Chosen Option : D

Q.5 उस गलत प्रक्रिया का चयन करें, जो परीक्षण में लंबी पाई जाने पर श्रृंखला को समायोजित करने में सहायक नहीं हो सकती है?

- Ans
- A. खुले होने पर रिंग के जोड़ों को बंद करना
 - B. वृत्ताकार रिंग को समतल करना
 - C. प्रलंबित रिंग को फिर से आकार देना
 - D. घिसे-पिटे रिंग को बदलना

Question ID : 481843842
Status : Answered
Chosen Option : B

Q.6 Which of the following is NOT the characteristic of contours?

- Ans
- A. Two contour lines of different elevations cannot cross each other
 - B. Contour lines of different elevations can unite to form one line only in the case of a vertical cliff
 - C. A closed contour line with one or more higher ones inside it represents a hill
 - D. Contour lines close together indicate gentle slope, they indicate steep slope if they are far apart

Question ID : 481843863
Status : Answered
Chosen Option : A

Q.7 Which among the following can be assessed from rupture of one or more critical sections and from buckling due to elastic or plastic instability or overturning, in the design of reinforced concrete structures?

- Ans
- A. Limit state of deflection
 - B. Limit state of serviceability
 - C. Limit state of cracking
 - D. Limit state of collapse

Question ID : 481843831
Status : Answered
Chosen Option : A

Q.8 Which of the following is the most commonly used method of measuring consistency of concrete which can be employed either in laboratory or at site of work, but is NOT suitable for very wet or very dry concrete?

- Ans
- A. Compacting factor test
 - B. Flow test
 - C. Slump test
 - D. Vee Bee consistometer test

Question ID : 481843764
Status : Answered
Chosen Option : D

Q.9 'दोनों भुजाओं को फैलाना और थोड़ा नीचे की ओर ठेलना।'

उपरोक्त उल्लेखित हस्त संकेत समतलन के समय क्या संदेश देता है?

- Ans
- A. खूटी या स्टाफ की ऊंचाई कम करें
 - B. मेरी ओर वापस आएं
 - C. पोजीशन स्थापित करें
 - D. खूटी या स्टाफ की ऊंचाई बढ़ाएं

Question ID : 481843860

Status : Answered

Chosen Option : A

Q.10 Pick-out the FALSE statement for laws of kinetic friction.

- Ans
- A. The constant ratio that magnitude of kinetic friction bears is slightly greater than that in case of limiting friction
 - B. The magnitude of kinetic friction bears a constant ratio to the normal reaction between the two surfaces
 - C. For moderate speeds, the force of friction remains constant. But it decreases slightly with the increase of speed
 - D. The force of friction always acts in a direction, opposite to that in which the body is moving

Question ID : 481843815

Status : Answered

Chosen Option : A

Q.11 Variation in declination in compass survey is one of the reason for:

- Ans
- A. Instrumental errors
 - B. Natural errors
 - C. Personal errors
 - D. Arithmetic errors

Question ID : 481843855

Status : Answered

Chosen Option : A

Q.12 Which among the following soils have a liquid limit greater than 35 but less than 50?

- Ans
- A. Silts and clays of ultra-low compressibility
 - B. Silts and clays of high compressibility
 - C. Silts and clays of low compressibility
 - D. Silts and clays of medium compressibility

Question ID : 481843778

Status : Answered

Chosen Option : D

Q.13 _____ are lightweight, structurally efficient composites, however the timber outer surface needs a protective coating that must be maintained.

- Ans
- A. Fibre reinforced plastics
 - B. Structural insulated panels
 - C. Fibre reinforced in concrete
 - D. Bridge decks composite

Question ID : 481843820
Status : Answered
Chosen Option : B

Q.14 Which among the following ultra-high strength concrete, is labour intensive, but will give a good, strong, durable concrete, without the cost of superplasticisers?

- Ans
- A. High-range water reducers
 - B. Vacuum dewatering
 - C. Macro-defect free mixes
 - D. Condensed silica fume

Question ID : 481843828
Status : Answered
Chosen Option : C

Q.15 Which among the following pair of soil structure are composite structure?

- Ans
- A. Single grained and honey-comb
 - B. Coarse-grained skeleton and clay matrix
 - C. Flocculated and dispersed
 - D. Dispersed and honey-comb

Question ID : 481843775
Status : Answered
Chosen Option : D

Q.16 Saturated clays and silts under undrained conditions are:

- Ans
- A. Cohesionless soils
 - B. Cohesive-frictionless soils
 - C. Cohesive-frictional soils
 - D. Purely cohesive soils

Question ID : 481843781
Status : Answered
Chosen Option : B

Q.17 In which of the following test of soil shear strength measurement based on drainage condition, the specimen is allowed to consolidate in the first stage only and the drainage is permitted until consolidation is complete?

- Ans
- A. Composite consolidated-Drained condition
 - B. Unconsolidated-Undrained condition
 - C. Consolidated-Drained condition
 - D. Consolidated-Undrained condition

Question ID : 481843780
Status : Answered
Chosen Option : D

Q.18 Concrete undergoes plastic shrinkage as mixing water for concrete creates continuous channels, bleeding and water accumulation at some selected places which reduces the strength of concrete. The method which reduces all these defects and increases the strength of concrete is known as:

- Ans
- A. Seeding
 - B. Revibration
 - C. Inhibition of cracks
 - D. High speed slurry mixing

Question ID : 481843765
Status : Answered
Chosen Option : A

Q.19 Which among the following condition is FALSE for selecting the survey stations?

- Ans
- A. The main lines should form well-conditioned triangles
 - B. The main lines may not fall out the boundaries of survey property
 - C. As far as possible, the main survey lines should not pass through the obstacles
 - D. Survey stations must be mutually visible

Question ID : 481843845
Status : Answered
Chosen Option : C

Q.20 _____ are commonly available in lengths of 20, 30 and 100 m and are normally 6 mm wide.

- Ans
- A. Metallic tape
 - B. Woven tape
 - C. Cloth or linen tape
 - D. Invar tape

Question ID : 481843843
Status : Answered
Chosen Option : C

Q.21 In centesimal system, 1 grad will be equal to:

- Ans
- A. 360° (centigrades)
 - B. 24° (centigrades)
 - C. 100° (centigrades)
 - D. 60° (centigrades)

Question ID : 481843840

Status : Answered

Chosen Option : C

Q.22 Which among the following error can be eliminated only by careful levelling with respect to the altitude bubble if it is in adjustment?

- Ans
- A. Error due to imperfect adjustment of plate levels
 - B. Error due to imperfect adjustment of the vertical circle vernier
 - C. Error due to level of collimation not being perpendicular to the horizontal axis
 - D. Error due to non-parallelism of the axis of telescope level and line of collimation

Question ID : 481843856

Status : Answered

Chosen Option : C

Q.23 The bond which resists the 'pulling out' of the bar if it is in tension or 'pushing in' of the bar if it is in compression, is called as:

- Ans
- A. Fixed-stress bond
 - B. Local bond
 - C. Anchorage bond
 - D. Flexural bond

Question ID : 481843835

Status : Answered

Chosen Option : C

Q.24 Pick-out the INCORRECT statement.

- Ans
- A. The bending moment is maximum or minimum where shear force is zero
 - B. Bending moment is zero at the free end of a cantilever or overhanging beam
 - C. Bending moment is maximum at supports of simply supported beam
 - D. The bending moment curve will be one degree higher than that of shear force and two degree higher than load curve

Question ID : 481843795

Status : Answered

Chosen Option : C

Q.25 The value of stress up to which a specified permanent set in percentage of strain remains on unloading, when the specimen is unloaded is known as:

- Ans
- A. Ultimate stress
 - B. Proof stress
 - C. Concentration stress
 - D. Breaking stress

Question ID : 481843800
Status : Answered
Chosen Option : D

Q.26 Which of the following way of constructing hollow concrete block walls is FALSE?

- Ans
- A. Simple hollow block masonry with only prestressed infilling
 - B. Infilled hollow block masonry with plain concrete infilling
 - C. Reinforced hollow block masonry with steel reinforcement and concrete infilling for higher strength
 - D. Simple masonry with hollows untreated

Question ID : 481843877
Status : Answered
Chosen Option : C

Q.27 Which among the following is judged by using plumb-bob, and if it is NOT available, it may be judged by dropping a pebble from the centre of the bottom of the instrument?

- Ans
- A. Levelling
 - B. Focusing the prism
 - C. Straightening
 - D. Centring

Question ID : 481843850
Status : Answered
Chosen Option : D

Q.28 _____ is defined as the maximum water content at which a reduction in water content will NOT cause a decrease in the volume of the soil mass.

- Ans
- A. Volumetric limit
 - B. Plastic limit
 - C. Liquid limit
 - D. Shrinkage limit

Question ID : 481843784
Status : Answered
Chosen Option : D

Q.29 _____ is used when it is required to take inclined sights and the accuracy and range of sights are increased by its use.

- Ans
- A. Telescopic alidade
 - B. Fixed alidade
 - C. Flexible alidade
 - D. Plain alidade

Question ID : 481843862
Status : Answered
Chosen Option : A

Q.30 What should be the range of cross-sectional area for longitudinal reinforcement in reinforced concrete column as per IS: 456-2000?

- Ans
- A. 0.8 – 6 percent of the gross cross-sectional area of the column
 - B. 0.8 – 6 percent of the individual cross-sectional area of the base
 - C. 0.5 – 6 percent of the gross cross-sectional area of the column
 - D. 0.5 – 6 percent of the individual cross-sectional area of the base

Question ID : 481843838
Status : Answered
Chosen Option : A

Q.31 High sensitivity in clays is due to a well-developed _____ which is disturbed when the soil is remoulded.

- Ans
- A. Honey-comb structure
 - B. Clay matrix structure
 - C. Single-grained structure
 - D. Flocculent structure

Question ID : 481843785
Status : Answered
Chosen Option : D

Q.32 In which of the following method of plotting a traverse survey has the advantage that, the closing error can be eliminated by balancing, prior to plotting?

- Ans
- A. Angle and distance method
 - B. Tangent method
 - C. Displacement method
 - D. Co-ordinate method

Question ID : 481843857
Status : Not Answered
Chosen Option : --

Q.33 Which among the following stress act along the circumference of the cylinder?

- Ans
- A. Tangential stress
 - B. longitudinal stress
 - C. Hoop stress
 - D. Compressive stress

Question ID : 481843794
Status : Answered
Chosen Option : C

Q.34 Brick earth and chalks are used to make:

- Ans
- A. White bricks
 - B. Blue bricks
 - C. Red bricks
 - D. Yellow bricks

Question ID : 481843824
Status : Answered
Chosen Option : A

Q.35 The measure of the shearing strength of the soil at the plastic limit is known as:

- Ans
- A. Plasticity index
 - B. Flow index
 - C. Toughness index
 - D. Liquidity index

Question ID : 481843777
Status : Answered
Chosen Option : C

Q.36 A sprayed bitumen binder with stone chippings rolled on, is called as:

- Ans
- A. Micro asphalts
 - B. Hot rolled asphalts
 - C. Slurry surfacing's
 - D. Surface dressing

Question ID : 481843821
Status : Answered
Chosen Option : D

Q.37 The method of corrosion prevention that makes the metal (cathodic) negative relative to the solution and thus stops the anodic reaction and can be applied for considerable length of time, is known as:

- Ans
- A. Cathodic protection with weathering steels
 - B. Cathodic potential with applied potential
 - C. Cathodic protection with sacrificial anodes
 - D. Cathodic protection with coatings

Question ID : 481843826
Status : Answered
Chosen Option : A

Q.38 The variation in declination which appears to be of periodic character, follows a roller-coaster pattern and swings like a pendulum, is known as:

- Ans
- A. Diurnal variation
 - B. Irregular variation
 - C. Annual variation
 - D. Secular variation

Question ID : 481843852
Status : Answered
Chosen Option : D

Q.39 Pick-out the INCORRECT statement for triaxial test on cohesionless soils.

- Ans
- A. The specimen is free to fail on the weakest plane
 - B. The stress distribution on the failure plane is uniform
 - C. The apparatus is simple, compact and in-expensive
 - D. The test is suitable for accurate research work

Question ID : 481843776
Status : Answered
Chosen Option : C

Q.40 _____ has the added advantage of applying a negative voltage to the reinforcing steel that will directly inhibit corrosion, in the same way as cathodic protection.

- Ans
- A. Electromigration
 - B. Diffusion
 - C. Pressure driven flow
 - D. Thermal gradient

Question ID : 481843829
Status : Not Answered
Chosen Option : --

Q.41 Pick-out the CORRECT action by the assistant if the surveyor signal's "Right arm up and moved to the right".

- Ans
- A. Plumb the rod to the left
 - B. Fix the rod
 - C. Plumb the rod to the right
 - D. Move considerably to the right

Question ID : 481843844
Status : Answered
Chosen Option : D

Q.42 As per IS: 456-2000, the unit weight of plain concrete and reinforced concrete made with standard gravel stone aggregate may be taken as:

- Ans
- A. 18000 N/m³ and 25000 N/m³ respectively
 - B. 20000 N/m³ and 25000 N/m³ respectively
 - C. 24000 N/m³ and 20000 N/m³ respectively
 - D. 24000 N/m³ and 25000 N/m³ respectively

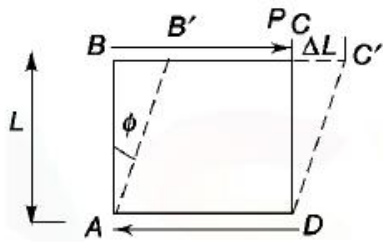
Question ID : 481843837
Status : Answered
Chosen Option : D

Q.43 The line which is commonly considered to be the line defined by a plumb line is called as:

- Ans
- A. Bench mark line
 - B. Horizontal line
 - C. Level line
 - D. Vertical line

Question ID : 481843858
Status : Answered
Chosen Option : D

Q.44



The situation of which type of strain is represented in the above figure?

- Ans
- A. Compressive strain
 - B. Shear strain
 - C. Tensile strain
 - D. Composite strain

Question ID : 481843799
Status : Answered
Chosen Option : B

Q.45 $\frac{0.657 C}{0.319 C + W_o}$

The above expression where W_o = volume of mixing water in ml, C = weight of cement in gm, is used for

- Ans
- A. Calculation of gel/space ratio for half hydration
 - B. Calculation of gel/space ratio for partial hydration
 - C. Calculation of gel/space ratio for composite hydration
 - D. Calculation of gel/space ratio for full hydration

Question ID : 481843772
Status : Answered
Chosen Option : D

Q.46 Original animal glues are categorized as:

- Ans
- A. Mechanical adhesives
 - B. Solvent adhesives
 - C. Composite adhesives
 - D. Surface adhesives

Question ID : 481843818
Status : Answered
Chosen Option : B

Q.47 In which of the following supports of frames, both the reaction are always vertical and may be found out by the principle of moments?

- Ans
- A. Frames with simply supported ends
 - B. Frames with both end hinged
 - C. Frames with both the ends fixed
 - D. Frames with one end hinged and other supported freely on rollers

Question ID : 481843817
Status : Answered
Chosen Option : D

Q.48 What does it really means to a condition of equilibrium i.e., if the body rotates about itself, without moving?

- Ans
- A. It means that there is a resultant force acting on it
 - B. It means that there is neither a resultant force nor a couple acting on it
 - C. It means that there is a single resultant couple acting on it with no resultant force
 - D. It means that there is a resultant force and also a resultant couple acting on it

Question ID : 481843809
Status : Answered
Chosen Option : C

Q.49 Which among the following effect makes concrete vulnerable to frost attack and other disturbances, as well as does NOT facilitate removal of formwork in a short period?

- Ans
- A. Delay in freezing and thawing
 - B. Delay in setting and hardening
 - C. Freezing and Thawing
 - D. Freezing of concrete at early age

Question ID : 481843773
Status : Answered
Chosen Option : C

Q.50 _____ normally varies between 0.30 for highly plastic clays and 0.075 for low plastic clays.

- Ans
- A. Expansion index
 - B. Coefficient of compressibility
 - C. Compression index
 - D. Coefficient of volume change

Question ID : 481843792
Status : Answered
Chosen Option : C

Q.51 "If a force acts at any point on a rigid body, it may also be considered to act at any other point on its line of action, provided this point is rigidly connected with the body"

The above stated principle belongs to:

- Ans
- A. Principle of transmissibility of forces
 - B. Varignon's principle of moments
 - C. Principle of combination of forces
 - D. Principle of physical independence of forces

Question ID : 481843805
Status : Answered
Chosen Option : A

Q.52 _____ are calculated separately and the unit of payment is per metre length.

- Ans
- A. Honey combing
 - B. Arches
 - C. Partition wall
 - D. Cornice and drip course

Question ID : 481843867
Status : Answered
Chosen Option : D

Q.53 The value of toughness index of most soil lies between:

- Ans
- A. 0 to 2.0
 - B. 0 to 0.5
 - C. 0 to 1.0
 - D. 0 to 3.0

Question ID : 481843786
Status : Answered
Chosen Option : D

Q.54 Which of the following is NOT the advantage of the internal focusing telescope?

- Ans
- A. In making measurement by the stadia method, an instrument constant is almost eliminated and computations are thus simplified
 - B. The interior of the telescope is so easily accessible for field cleaning and repairs
 - C. Wear on the rack and pinion is less due to lesser movement of negative lens
 - D. Line of collimation is less likely to be affected by focusing

Question ID : 481843859
Status : Answered
Chosen Option : A

Q.55 As per the indian standard specification the heat of hydration of low-heat portland cement for 28 days should NOT be more than _____.

- Ans
- A. 55 calories per gm
 - B. 65 calories per gm
 - C. 85 calories per gm
 - D. 75 calories per gm

Question ID : 481843768
Status : Answered
Chosen Option : B

Q.56 For a reinforced concrete beam, the region which normally occurs adjacent to mid-span where B.M. is large and shear force is either or very small, is known as:

- Ans
- A. Region of diagonal tension cracks
 - B. Region of flexural-shear cracks
 - C. Region of flexural cracks
 - D. Region of web shear cracks

Question ID : 481843830
Status : Answered
Chosen Option : A

Q.57 _____ are less commonly used and are L-shaped frames made of hardwood, preferably teak, Also has a small base 32.5 cm x 22.5 cm.

- Ans
- A. Spirit level
 - B. End frames
 - C. Mason' square
 - D. Plumb rule

Question ID : 481843873
Status : Not Answered
Chosen Option : --

Q.58 Pick-out the FALSE statement for static friction.

- Ans
- A. The force of friction is dependent on the area of contact between the two surfaces
 - B. The force of friction depends upon the roughness of friction
 - C. The magnitude of force of friction is exactly equal to the force, which tends to move the body
 - D. The force of friction always acts in a direction, opposite to that in which body tends to move, if the force of friction would have been absent

Question ID : 481843812
Status : Answered
Chosen Option : A

Q.59 Pick-out the statement which is NOT the advantage of Portland pozzolana cement?

- Ans A. The rate of development of strength is initially slightly quicker than OPC
- B. In PPC, costly clinker is replaced by cheaper pozzolanic material - hence economical
- C. It generates reduced heat of hydration and that too at a lower rate
- D. PPC consumes calcium hydroxide and does not produce calcium hydroxide as much as that of OPC

Question ID : 481843761
Status : Answered
Chosen Option : A

Q.60 What is the sensitivity of quick soils?

- Ans A. 4.0 – 8.0
- B. greater than 16
- C. Less than 1
- D. 1.0 – 2.0

Question ID : 481843788
Status : Answered
Chosen Option : B

Q.61 _____ is the ratio of a given volume change, expressed as a percentage of dry volume to the corresponding change in water content.

- Ans A. Volumetric ratio
- B. Linear ratio
- C. Shrinkage ratio
- D. Index ratio

Question ID : 481843774
Status : Answered
Chosen Option : C

Q.62 Which among the following method of specific gravity determination of solid particles, can be used for all types of soils, but is more suitable for medium-grained soils with more than 90% passing a 20 mm IS sieve and for coarse-grained soils with more than 90% passing a 40 mm IS sieve?

- Ans A. Pycnometer method
- B. Measuring flask method
- C. Glass jar method
- D. Density bottle method

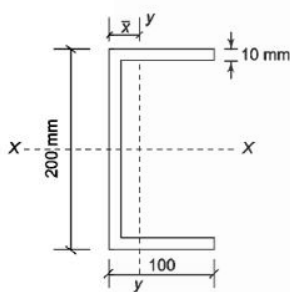
Question ID : 481843782
Status : Answered
Chosen Option : D

Q.63 Which among the following bond is used for half-brick partitions and for the half-brick leaves of cavity walls?

- Ans
- A. Rat-trap bond
 - B. Single Flemish bond
 - C. English bond
 - D. Stretcher bond

Question ID : 481843874
 Status : Answered
 Chosen Option : D

Q.64 Find the distance to the centroid of the channel section shown in figure, from the left edge (\bar{x}).



- Ans
- A. 10.53
 - B. 57.36
 - C. 21.07
 - D. 28.68

Question ID : 481843798
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.65 Which among the following constraint prevents motion perpendicular to its surface and also tangential relative motion due to friction as well as provides horizontal and vertical reactive forces?

- Ans
- A. Rough surface
 - B. Hinged support
 - C. Smooth surface
 - D. Roller support

Question ID : 481843797
 Status : Answered
 Chosen Option : B

Q.66 In chain surveying using chain/tape, the sag due to its self-weight takes the form of a catenary. While applying sag correction the catenary is approximated as:

- Ans
- A. A circle
 - B. Hyperbola
 - C. A parabola
 - D. A straight line

Question ID : 481843848
Status : Answered
Chosen Option : C

Q.67 Which among the following is NOT one of the common type of rubble masonry?

- Ans
- A. Chamfered rubble masonry
 - B. Course rubble masonry of the first sort
 - C. Course rubble masonry of the second sort
 - D. Random rubble masonry

Question ID : 481843878
Status : Answered
Chosen Option : A

Q.68 The surface hardener which when added 20 percent by weight of cement, is supposed to increase the compressive strength and abrasion resistance is called as:

- Ans
- A. Arconate no. 1
 - B. Metal crete steel patch
 - C. Metal crete
 - D. Ferrocete no. 1

Question ID : 481843769
Status : Answered
Chosen Option : B

Q.69 Which among the following error represent the limit of precision in the determination of a value & obey the laws of chance and therefore, must be handled according to the mathematical laws of probability?

- Ans
- A. Systematic errors
 - B. Cumulative errors
 - C. Accidental errors
 - D. Mistakes

Question ID : 481843841
Status : Answered
Chosen Option : A

Q.70 Two like parallel forces of 40 N and 80 N act at the end of a rod of 240 mm long. Find the magnitude of the resultant force and the point where it acts from left end of rod.

- Ans
- A. 150 N, 320 mm
 - B. 150 N, 480 mm
 - C. 120 N, 160 mm
 - D. 120 N, 360 mm

Question ID : 481843808
Status : Answered
Chosen Option : C

Q.71 According to Routh's law, the moment of inertia for spherical body about any one axis passing through its centre of gravity is given by:
(where = Area of the plane, = Mass of the body and = Sum of the squares of two semi-axis)

- Ans
- A. $I = \frac{A \text{ (or } M) x S}{3}$
 - B. $I = \frac{A \text{ (or } M) x S}{5}$
 - C. $I = \frac{A \text{ (or } M) x S}{4}$
 - D. $I = \frac{A \text{ (or } M) x S}{2}$

Question ID : 481843811
Status : Not Answered
Chosen Option : --

Q.72 Pick-out the application where the use of rapid hardening cement is recommended.

- Ans
- A. Concrete used for fabrication of pipes which are likely to be buried in marshy region
 - B. Where formwork is required to be removed early for re-use elsewhere
 - C. In the construction of sewage treatment works
 - D. Concrete to be used in marine condition

Question ID : 481843766
Status : Answered
Chosen Option : B

Q.73 The simple lever in which the effort and load act on the same side of the fulcrum, but load acting at a greater distance than the effort is known as:

- Ans
- A. Lever of first order
 - B. Lever of second order
 - C. Lever of third order
 - D. Lever of fourth order

Question ID : 481843807
Status : Answered
Chosen Option : A

- Q.74
- These generally do not harden.
 - They are sufficiently viscous to prevent sagging, but offer little mechanical strength.
 - They are often poured into joints.

Which among type of sealant has the above characteristics?

- Ans
- A. Mastics
 - B. Polyurethane sealants
 - C. Elastomeric sealants
 - D. Putties

Question ID : 481843819
Status : Answered
Chosen Option : D

Q.75 Identify the FALSE statement associated with the sketching of flow net.

- Ans
- A. The appearance of the entire flow net should be watched and not that of a part of it
 - B. The curves should be roughly elliptical or parabolic in shape
 - C. All transitions should be smooth
 - D. The flow lines and equipotential lines should be hexagonal and form approximate rectangle

Question ID : 481843790
Status : Answered
Chosen Option : D

Q.76 Pick-out the INCORRECT assumption of terzaghi's theory of consolidation of soils.

- Ans
- A. Soil is laterally confined, and the consolidation takes place only in axial direction. Drainage of water also occurs in vertical direction
 - B. The soil is homogenous and isotropic
 - C. There is unique relationship between the volumetric strain and the effective stress and this relationship remains constant during the load increment
 - D. The soil is fully saturated

Question ID : 481843793
Status : Answered
Chosen Option : C

Q.77 What is the section modulus of circular section of diameter 'd'?

Ans

A. $\frac{\pi d^3}{32}$

B. $0.52 d^3$

C. $\frac{\sqrt{2}a^3}{12}$

D. $0.058 d^3$

Question ID : 481843804

Status : Answered

Chosen Option : A

Q.78 In case of unsymmetrical wall, no advantage may be claimed by _____ over other method of estimating building works.

Ans

A. Centre line method

B. Crossing method

C. Out to out and in to in method

D. Long and short wall

Question ID : 481843865

Status : Answered

Chosen Option : D

Q.79 The moisture content of aggregate given by which method will normally be the total moisture content due to free plus absorbed water?

Ans

A. Measurement by electrical meter

B. Displacement method

C. Drying method

D. Calcium carbide method

Question ID : 481843759

Status : Answered

Chosen Option : D

- Q.80
1. To support the main part of the instrument
 2. To attach the theodolite to the tripod

Pick-out the essential part of transit that has above two distinctive functions.

Ans

A. The levelling head

B. The index frame

C. The plate levels

D. The lower plate

Question ID : 481843853

Status : Answered

Chosen Option : A

Q.81 Identify the INCORRECT use of particle size distribution curve for soils.

- Ans
- A. It is used in the classification of coarse-grained soils
 - B. It may indicate the mode of deposition of soil
 - C. It is useful in soil stabilisation and for the design of pavements
 - D. It is used to know the susceptibility of a soil to heaved action

Question ID : 481843783
Status : Answered
Chosen Option : D

Q.82 In the _____, the reference meridian is prefixed and the direction of measurement is affixed to the numerical value of the bearing.

- Ans
- A. Elongated bearing system
 - B. Azimuthal bearing system
 - C. Quadrantal bearing system
 - D. Whole circle bearing system

Question ID : 481843849
Status : Answered
Chosen Option : B

Q.83 Which among the following way is NOT recommended to clear blockages in pumping concrete?

- Ans
- A. By rodding or by using sponge ball pushed by compressed air or water at high pressure
 - B. By shortening the pipeline and then restarting pumping
 - C. By forward and reverse pumping
 - D. By pushing the unblocker manually into the pipeline

Question ID : 481843771
Status : Answered
Chosen Option : A

Q.84 Fatigue in materials is caused by many factors. Pick-out the FALSE one from the following.

- Ans
- A. Surface finish and the nature of the material
 - B. Presence of manufacturing defects like cracks and other defects
 - C. Presence of residual stress in the member due to manufacturing processes
 - D. Presence of stress concentration points on the outside or off the surface

Question ID : 481843802
Status : Answered
Chosen Option : B

Q.85 Which of the following indirect method of estimating coefficient of permeability of soils, is suitable for very fine-grained soils ($k < 10^{-5}$ mm/sec) ?

- Ans
- A. Kozeny-carman equation
 - B. Loudon's formula
 - C. Consolidation test data
 - D. Allen hazen's formula

Question ID : 481843791
Status : Answered
Chosen Option : D

Q.86 Pick-out the FALSE assumption to derive the expression for the coefficient of permeability.

- Ans
- A. Natural ground water regime remains constant
 - B. The flow towards the well is asymmetrical and horizontal
 - C. The flow is laminar and Darcy's law is valid
 - D. The flow is steady

Question ID : 481843789
Status : Answered
Chosen Option : B

Q.87 Identify the method which is more often employed as a method of placing ordinary concrete easily than as a method for obtaining high grade concrete at an economical.

- Ans
- A. Hand compaction
 - B. Compaction by vibration
 - C. Compaction by pressure and jolting
 - D. Compaction by spinning

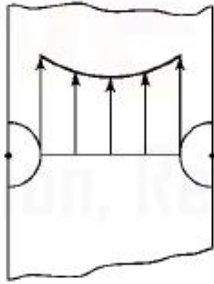
Question ID : 481843760
Status : Answered
Chosen Option : B

Q.88 Identify the CORRECT process of forming clay into shapes, which uses clay with moisture content of approximately 10% that is ground and pressed into moulds.

- Ans
- A. Base ground moulding
 - B. Soft-mud moulding
 - C. Stiff plastic process
 - D. Semidry process

Question ID : 481843823
Status : Not Answered
Chosen Option : --

Q.89



What does the above given figure represents?

- Ans
- A. Stress concentration at notches
 - B. Abrupt change in section
 - C. Stress concentration due to point load
 - D. Stress concentration at a hole

Question ID : 481843801
Status : Answered
Chosen Option : C

Q.90 Which among the following is the second stage of pre-construction treatment with durmet?

- Ans
- A. Treatment of junction of floor and wall
 - B. Treatment of refill in contact with foundation
 - C. Treatment of soil below floors
 - D. Treatment of wall trenches and basement excavation

Question ID : 481843870
Status : Not Answered
Chosen Option : --

Q.91 _____ is any convenient direction towards a permanent or prominent mark or signal.

- Ans
- A. Arbitrary meridian
 - B. Reduced meridian
 - C. True meridian
 - D. Magnetic meridian

Question ID : 481843847
Status : Answered
Chosen Option : C

Q.92 The process of autoclaving is followed in:

- Ans
- A. Curing by infra-red radiation
 - B. Electrical curing
 - C. Steam curing at ordinary pressure
 - D. Steam curing at high pressure

Question ID : 481843763

Status : Not Answered

Chosen Option : --

Q.93 पैटर्न मिश्र धातु > मिश्र धातु का नाम > गुणधर्म/अनुप्रयोग में फ्रेम किए गए तांबे की मिश्र धातुओं के लिए गलत युग्म का चयन करें?

- Ans
- A. जिंक > पीतल > औद्योगिक प्रदूषण द्वारा आक्षेपित लेकिन अंतर्देशीय और समुद्री वातावरण के लिए प्रतिरोधी नहीं है
 - B. टिन > कांसा > दृढ़ है और घर्षण एवं जंग के लिए अच्छी तन्यकता होती है
 - C. सिलिकॉन > सिलिकॉन कांसा > दरवाजे की फिटिंग, रेलिंग और कब्जों के लिए प्रयुक्त होता है
 - D. एल्युमिनियम > एल्यूमीनियम कांसा > पाइप फिटिंग और फास्टर के लिए प्रयुक्त होते हैं

Question ID : 481843825

Status : Answered

Chosen Option : D

Q.94 Which among the following assumption in limit state of collapse in flexure is FALSE?

- Ans
- A. Maximum strain in concrete at the outermost compression fibre is taken as 0.0035 in bending
 - B. The tensile strength of concrete is ignored
 - C. Plane sections normal to the axis will be uneven after bending
 - D. For design purpose, the compressive strength of concrete in structure shall be assumed to be 0.67 times the characteristic strength of concrete in cube

Question ID : 481843834

Status : Answered

Chosen Option : C

Q.95 If a beam is loaded with uniformly varying load, the nature of shear force and bending moment will be:

- Ans
- A. Parabolic and Cubic
 - B. Linear and circular
 - C. Linear and Parabolic
 - D. Constant and linear

Question ID : 481843796

Status : Answered

Chosen Option : A

Q.96 आधुनिक भवन निर्माण कार्यों के लिए आवश्यक विद्युत आपूर्ति के अवलोकन का निम्नलिखित में से कौन सा बिंदु गलत है?

- Ans
- A. स्विच बोर्ड, आदि को ठीक से लगाया जाना चाहिए और ये लॉक होने में सक्षम होने चाहिए।
 - B. आपूर्ति की वस्तुएं बहुत उच्च गुणवत्ता की नहीं होनी चाहिए क्योंकि अवस्थापन अस्थायी है और इससे लागत की बचत होगी।
 - C. स्विच बोर्ड भूमि-स्तर से लगभग 1.5 m ऊपर होना चाहिए।
 - D. केबल अच्छी गुणवत्ता की होनी चाहिए और उन्हें उपयुक्त रूप से सपोर्ट दिया जाना चाहिए।

Question ID : 481843869
Status : Answered
Chosen Option : B

Q.97 Which of the following error is NOT very serious in ordinary work if only the length is required, but if offsetting to be done, the error is very serious?

- Ans
- A. Bad ranging
 - B. Bad straightening
 - C. Careless holding and marking
 - D. Sag in chain

Question ID : 481843851
Status : Answered
Chosen Option : C

Q.98 When brickwork is set with a fine joint, it is usual to fill the interior joints with a thin liquid mortar then the process is called:

- Ans
- A. Rakking
 - B. Rat trapping
 - C. Larrying
 - D. Grouting

Question ID : 481843875
Status : Answered
Chosen Option : D

Q.99 _____ are made to fix the boundaries of municipalities and of state and federal jurisdictions.

- Ans
- A. Astronomical survey
 - B. Cadastral survey
 - C. Topographical survey
 - D. Hydrographic survey

Question ID : 481843839
Status : Answered
Chosen Option : B

Q.100 Pick-out the INCORRECT condition for the orientation of plane table by compass.

- Ans
- A. When accuracy is more important than speed
 - B. When there is no second point available for orientation
 - C. In certain resection problems
 - D. For approximate orientation prior to final adjustment

Question ID : 481843864
Status : Answered
Chosen Option : D

Q.101 Which among the following have high adhesion and shear strength?

- Ans
- A. Polythene
 - B. Formed products
 - C. Polymer grouts
 - D. Geotextiles

Question ID : 481843822
Status : Answered
Chosen Option : C

Q.102 What is the provision of percentage of the cost of estimate for work charged establishment(Choose the most approximate one)?

- Ans
- A. $1\frac{1}{2}$ % to $2\frac{1}{2}$ %
 - B. $1\frac{1}{2}$ % to 3 %
 - C. 1 % to 2 %
 - D. $1\frac{1}{2}$ % to 2 %

Question ID : 481843868
Status : Answered
Chosen Option : D

Q.103 The beam having a hinge support at one end and a roller support at other end and that hinge support can have two reaction components, vertical and horizontal is known as:

- Ans
- A. Double overhanging beams
 - B. Cantilever beams
 - C. Overhanging beams
 - D. Simply supported beams

Question ID : 481843803
Status : Answered
Chosen Option : D

Q.104 मिट्टियों का चूषण (खिंचाव) _____ पर निर्भर नहीं करता है।

- Ans
- A. कण आकार
 - B. तापमान
 - C. घुले हुए लवण
 - D. वायु घटक

Question ID : 481843787
Status : Answered
Chosen Option : D

Q.105 _____ are NOT bent, so they can have higher carbon contents than normal reinforcement, and have higher strength.

- Ans
- A. Joint-proof steels
 - B. Structural steels
 - C. Reinforcing steels
 - D. Prestressing steels

Question ID : 481843827
Status : Answered
Chosen Option : B

Q.106 The Lami's theorem is applicable to which of the following forces?

- Ans
- A. Two coplanar forces
 - B. Two concurrent coplanar forces
 - C. Three concurrent forces
 - D. Three concurrent coplanar forces

Question ID : 481843810
Status : Answered
Chosen Option : D

Q.107 Pick-out the FALSE circumstances among given options, when a doubly reinforced section of a beam is provided?

- Ans
- A. Where it is required to increase the flexibility of the beam
 - B. Restriction in the depth at the location of beam at plinth level, along with the provision of ventilator between the ground level and the bottom of plinth beam
 - C. In a continuous beam floor system
 - D. When there are architectural restrictions on the depth

Question ID : 481843832
Status : Answered
Chosen Option : A

Q.108 For continuous beams, the basic value of span to effective depth ratio for spans up to 10 m is:

- Ans
- A. 34
 - B. 20
 - C. 7
 - D. 26

Question ID : 481843872
Status : Answered
Chosen Option : D

Q.109 _____ are the temporary joints left between subsequent concreting operations, their position should be pre-planned before concreting is started.

- Ans
- A. Expansion joints
 - B. Construction joints
 - C. Contraction joints
 - D. Isolation joints

Question ID : 481843770
Status : Answered
Chosen Option : B

Q.110 _____ gives an idea whether the alignment of the road followed is suitable, useful and profitable or NOT, for the people.

- Ans
- A. Lay-out plan
 - B. Scope plan
 - C. Index plan
 - D. Site plan

Question ID : 481843866
Status : Answered
Chosen Option : C

Q.111 The forces which meet at one point, but their lines of action do NOT lie on the same plane are known as:

- Ans
- A. Coplanar non-concurrent forces
 - B. Coplanar concurrent forces
 - C. Non-coplanar concurrent forces
 - D. Non-coplanar non concurrent forces

Question ID : 481843806
Status : Answered
Chosen Option : C

Q.112 The working of a ____ for the determination of altitudes of stations depends on the fact that the temperature at which water boils varies with atmospheric pressure.

- Ans A. Hypsometer
 B. Durometer
 C. Bubble tube
 D. Barometer

Question ID : 481843861
Status : Answered
Chosen Option : A

Q.113 Which of the following is the FALSE statement in-regards to fundamental lines and their desired relations of a transit theodolite?

- Ans A. The line of collimation must be perpendicular to the horizontal axis at its intersection
 B. The axis of the altitude level must be parallel to the line of collimation
 C. The axis of striding level must be perpendicular to the horizontal axis
 D. The axis of the plate level must lie in a perpendicular to the vertical axis

Question ID : 481843854
Status : Answered
Chosen Option : C

Q.114 The assumed overall depth of the T-beam may be taken as ____ of the span when it is simply supported.

- Ans A. 1/15 to 1/20
 B. 1/6 to 1/8
 C. 1/12 to 1/15
 D. 1/10 to 1/12

Question ID : 481843833
Status : Answered
Chosen Option : D

Q.115 Which among the following damp proofer is a white powder, the addition of which is claimed to decrease the permeability of concrete and mortars and produce rapid hardening effect?

- Ans A. Natson's cement water proofer
 B. Accoproof
 C. Feb-mix-admix
 D. Trip-L-seal

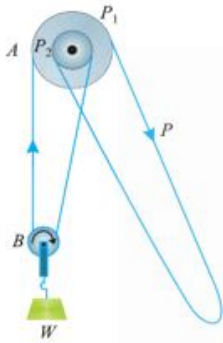
Question ID : 481843762
Status : Not Answered
Chosen Option : --

Q.116 Identify the method of measuring air content of fresh concrete which makes use of water type meter and Washington air meter working on the principle of boyle's law.

- Ans A. Pressure method
 B. Volumetric method
 C. Displacement method
 D. Gravimetric method

Question ID : 481843767
 Status : Answered
 Chosen Option : A

Q.117



To which of the following lifting machine the above figure belongs to?

- Ans A. Differential pulley block
 B. Simple wheel axle
 C. Simple pulley
 D. Worm geared pulley block

Question ID : 481843814
 Status : Not Answered
 Chosen Option : --

Q.118 Which among the following instrument have common forms such as open, French and adjustable?

- Ans A. Cross staff
 B. Prism square
 C. Optical square
 D. Site square

Question ID : 481843846
 Status : Answered
 Chosen Option : A

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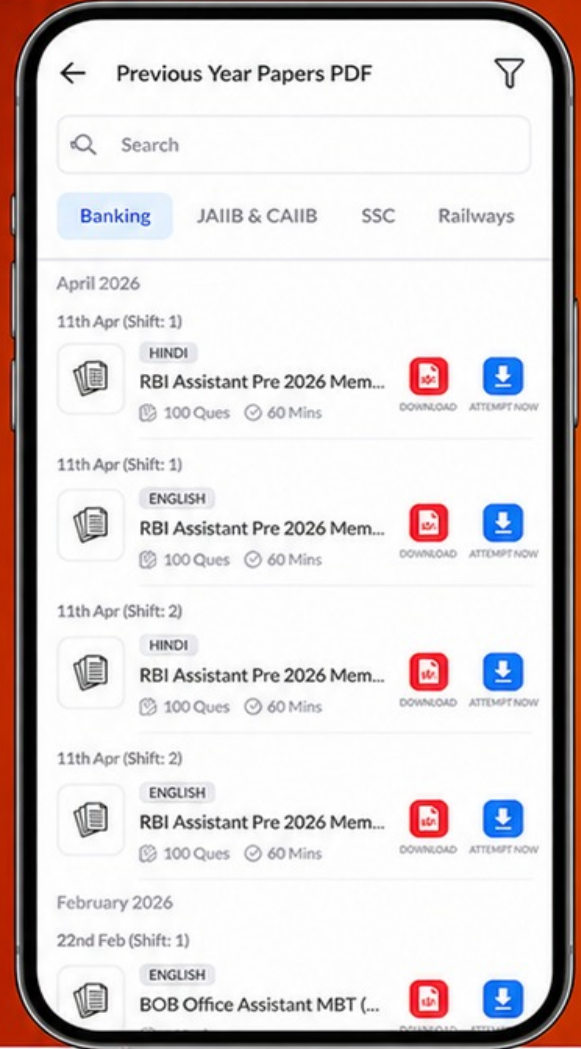
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Q.119 What is the maximum mechanical advantage of a lifting machine?

(where m is a constant called coefficient of friction).

- Ans
- A. $1-m$
 - B. $1+m$
 - C. m
 - D. $1/m$

Question ID : 481843813
Status : Answered
Chosen Option : D

Q.120 The velocity ratio of a first system of pulleys with 5 pulleys is:

- Ans
- A. 2
 - B. 16
 - C. 32
 - D. 1

Question ID : 481843816
Status : Answered
Chosen Option : C