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**Previous Year Paper
(Electrical)
08 Feb, 2024 Shift 1**





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Participant ID	
Participant Name	
Test Center Name	
Test Date	08/02/2024
Test Time	8:30 AM - 10:30 AM
Subject	Diploma Trainee Electrical

Section : Electrical Engineering

Q.1 When is the elasticity of polygonal OHE greatest?

- Ans ☒ 1. Span sag
☒ 2. Mid span
☒ 3. Support beam
☒ 4. Compression joint

Question ID : 630680586872
Option 1 ID : 6306802296221
Option 2 ID : 6306802296218
Option 3 ID : 6306802296219
Option 4 ID : 6306802296220
Status : Answered
Chosen Option : 1

Q.2 What is a high voltage Schering bridge used for?

- Ans ☒ 1. Measurement of small capacitances at high voltages
☒ 2. Measurement of small capacitances at low voltages
☒ 3. Measurement of high capacitances at high voltages
☒ 4. Measurement of high capacitances at low voltages

Question ID : 630680586877
Option 1 ID : 6306802295880
Option 2 ID : 6306802295878
Option 3 ID : 6306802295881
Option 4 ID : 6306802295879
Status : Answered
Chosen Option : 1

Q.3 Which bridge method is limited to the measurement of low Q values from 1-10?

- Ans
- ☒ 1. Anderson Bridge
 - ☐ 2. Maxwell Bridge
 - ☐ 3. Schering Bridge
 - ☐ 4. Hay's Bridge

Question ID : 630680586786
Option 1 ID : 6306802295877
Option 2 ID : 6306802295876
Option 3 ID : 6306802295875
Option 4 ID : 6306802295874
Status : Answered
Chosen Option : 2

Q.4 What is the line voltage equal to in a delta connection?

- Ans
- ☒ 1. Phase voltage
 - ☐ 2. Root three times of phase voltage
 - ☐ 3. Root two times of phase voltage
 - ☐ 4. Neutral current

Question ID : 630680586878
Option 1 ID : 6306802296244
Option 2 ID : 6306802296242
Option 3 ID : 6306802296245
Option 4 ID : 6306802296243
Status : Answered
Chosen Option : 1

Q.5 How to calculate string efficiency?

- Ans
- ☐ 1. Voltage across the string / (Number of discs * Voltage across the disc farthest from the conductor)
 - ☐ 2. Voltage across the disc nearest to the conductor / Number of discs
 - ☒ 3. Voltage across the string / (Number of discs * Voltage across the disc nearest to the conductor)
 - ☐ 4. Number of discs / Voltage across the disc nearest to the conductor

Question ID : 630680586841
Option 1 ID : 6306802296094
Option 2 ID : 6306802296097
Option 3 ID : 6306802296095
Option 4 ID : 6306802296096
Status : Answered
Chosen Option : 3

Q.6 In differential method of busbar protection, what is the sum of currents under normal load conditions?

- Ans
- ☐ 1. Unity
 - ☐ 2. Equal to the voltage supplied
 - ☐ 3. Resistance/Voltage supplied
 - ☒ 4. Zero

Question ID : 630680586883
Option 1 ID : 6306802296263
Option 2 ID : 6306802296262
Option 3 ID : 6306802296265
Option 4 ID : 6306802296264
Status : Answered
Chosen Option : 4

Q.7 As a thumb rule, what is the depth of the pole to be planted in the ground taken as used for erecting an overhead line?

- Ans
- ☐ 1. 1/5th of the pole length
 - ☐ 2. 1/8th of the pole length
 - ☒ 3. 1/6th of the pole length
 - ☐ 4. 1/3th of the pole length

Question ID : 630680586848
Option 1 ID : 6306802296125
Option 2 ID : 6306802296123
Option 3 ID : 6306802296122
Option 4 ID : 6306802296124
Status : Answered
Chosen Option : 4

Q.8 What is the actuating error signal in a closed loop control system?

- Ans
- ☐ 1. Difference between output signal and feedback signal
 - ☐ 2. Sum of output signal and feedback signal
 - ☒ 3. Difference between input signal and feedback signal
 - ☐ 4. Sum of input signal and feedback signal

Question ID : 630680586857
Option 1 ID : 6306802296161
Option 2 ID : 6306802296160
Option 3 ID : 6306802296159
Option 4 ID : 6306802296158
Status : Answered
Chosen Option : 3

Q.9 Where is the line terminal of a 3 point DC motor starter connected?

- Ans
- ☒ 1. To the negative of supply
 - ☐ 2. To the positive of supply
 - ☐ 3. Field winding
 - ☐ 4. Armature winding

Question ID : 630680586796
Option 1 ID : 6306802295917
Option 2 ID : 6306802295915
Option 3 ID : 6306802295916
Option 4 ID : 6306802295914
Status : Answered
Chosen Option : 2

Q.10 What is the function of DC link in a VVVF drive system?

- Ans
- ☐ 1. Convert direct current into alternating current
 - ☐ 2. Vary the voltage and current conduction
 - ☒ 3. Filtrate the impure DC supply from the rectifier circuit
 - ☐ 4. Convert alternating current into direct current

Question ID : 630680586811
Option 1 ID : 6306802295976
Option 2 ID : 6306802295977
Option 3 ID : 6306802295975
Option 4 ID : 6306802295974
Status : Answered
Chosen Option : 4

Q.11 What are infrared sensors in an elevator control system used for?

- Ans
- ☒ 1. Detect people entering or leaving the elevator
 - ☐ 2. Sense the velocity of the drive sheave
 - ☐ 3. Warn the control system if the design load is exceeded
 - ☐ 4. Pick up signals regarding the location of the car

Question ID : 630680586858
Option 1 ID : 6306802296164
Option 2 ID : 6306802296165
Option 3 ID : 6306802296163
Option 4 ID : 6306802296162
Status : Answered
Chosen Option : 1

Q.12 By what are the rotor poles of a synchronous motor excited?

Ans ☒ 1. Small d.c. shunt generator

☐ 2. Stator core

☐ 3. Rotor shaft

☐ 4. 3-phase winding

Question ID : 630680586813
Option 1 ID : 6306802295984
Option 2 ID : 6306802295982
Option 3 ID : 6306802295985
Option 4 ID : 6306802295983
Status : Answered
Chosen Option : 1

Q.13 What is the representation of the effective resistance of the transformer(R_{01}) as referred to primary?

Ans ☐ 1. $R_1 + R_2 K^2$

☒ 2. $R_1 + R_2 / K^2$

☐ 3. $R_2 + R_1 K^2$

☐ 4. $R_2 + R_1 / K^2$

Question ID : 630680586803
Option 1 ID : 6306802295945
Option 2 ID : 6306802295943
Option 3 ID : 6306802295942
Option 4 ID : 6306802295944
Status : Answered
Chosen Option : 2

Q.14 If a 4 pole D.C. motor has 774 conductors(Z), two paths in parallel, 24 mWb per pole when the total armature current is 50 amperes, find the value of torque in N-m units.

Ans ☐ 1. 292.3 N-m

☐ 2. 290.5 N-m

☐ 3. 297.5 N-m

☒ 4. 295.3 N-m

Question ID : 630680586799
Option 1 ID : 6306802295929
Option 2 ID : 6306802295926
Option 3 ID : 6306802295928
Option 4 ID : 6306802295927
Status : Answered
Chosen Option : 4

Q.15 Which of the given time current characteristics relay operates after a predetermined time when the current exceeds the pick up value?

- Ans ☒ 1. Instantaneous over-current relay
- ☒ 2. Definite over-current relay
- ☒ 3. Inverse-time over-current relay
- ☒ 4. Very inverse time over current relay

Question ID : 630680586885
Option 1 ID : 6306802296270
Option 2 ID : 6306802296271
Option 3 ID : 6306802296272
Option 4 ID : 6306802296273
Status : Answered
Chosen Option : 2

Q.16 What is the minimum length of installing a ceiling fan from the floor level?

- Ans ☒ 1. 2.30 m
- ☒ 2. 2.75 m
- ☒ 3. 2.10 m
- ☒ 4. 2.25 m

Question ID : 630680586844
Option 1 ID : 6306802296107
Option 2 ID : 6306802296108
Option 3 ID : 6306802296109
Option 4 ID : 6306802296106
Status : Answered
Chosen Option : 4

Q.17 As per Maximum Power Transfer Theorem, when will a load resistance abstract maximum power from a power source?

- Ans ☒ 1. Load resistance is less than the internal resistance of the source.
- ☒ 2. Load resistance is more than the internal resistance of the source.
- ☒ 3. Load resistance has an infinite high resistance.
- ☒ 4. Load resistance is equal to the internal resistance of the source.

Question ID : 630680586771
Option 1 ID : 6306802295815
Option 2 ID : 6306802295816
Option 3 ID : 6306802295817
Option 4 ID : 6306802295814
Status : Answered
Chosen Option : 4

Q.18 What happens when the load on a synchronous motor is increased?

- Ans
- ☐ 1. The rotor falls back in speed by a smaller load angle
 - ☐ 2. The rotor falls back in phase by a smaller load angle
 - ☐ 3. The rotor falls back in speed by a greater load angle
 - ☒ 4. The rotor falls back in phase by a greater load angle

Question ID : 630680586814
Option 1 ID : 6306802295989
Option 2 ID : 6306802295988
Option 3 ID : 6306802295987
Option 4 ID : 6306802295986
Status : Answered
Chosen Option : 4

Q.19 What is the armature ohmic drop in the voltage equation of a d.c. motor?

- Ans
- ☐ 1. I_a/R_a
 - ☐ 2. $I_a R_a/ E$
 - ☐ 3. $E/I_a R_a$
 - ☒ 4. $I_a R_a$

Question ID : 630680586795
Option 1 ID : 6306802295910
Option 2 ID : 6306802295913
Option 3 ID : 6306802295911
Option 4 ID : 6306802295912
Status : Answered
Chosen Option : 4

Q.20 Which of the following is the correct characteristic of a diode when it is forward biased and the applied voltage is increased from zero?

- Ans
- ☐ 1. The Zener voltage sharply increases
 - ☐ 2. The leakage current reaches its maximum value
 - ☐ 3. The external voltage flows along with the internal voltage
 - ☒ 4. Hardly any current flows through the device in the beginning

Question ID : 630680586850
Option 1 ID : 6306802296133
Option 2 ID : 6306802296132
Option 3 ID : 6306802296131
Option 4 ID : 6306802296130
Status : Answered
Chosen Option : 4

Q.21 What is the leakage reactance of the primary winding of a transformer?

- Ans
- ☐ 1. $1/I_2 X_2$
 - ☒ 2. $I_1 X_1$
 - ☐ 3. $I_2 X_2$
 - ☐ 4. $1/I_1 X_1$

Question ID : 630680586801
Option 1 ID : 6306802295934
Option 2 ID : 6306802295937
Option 3 ID : 6306802295935
Option 4 ID : 6306802295936
Status : Answered
Chosen Option : 2

Q.22 What will happen in case secondary of a current transformer is left open?

- Ans
- ☐ 1. Current through secondary becomes maximum
 - ☒ 2. Current through secondary becomes zero
 - ☐ 3. Small flux is induced on both primary and secondary side
 - ☐ 4. Low e.m.f is induced on both primary and secondary side

Question ID : 630680586790
Option 1 ID : 6306802295890
Option 2 ID : 6306802295892
Option 3 ID : 6306802295893
Option 4 ID : 6306802295891
Status : Answered
Chosen Option : 2

Q.23 What is the load current for which the speed would be zero in the armature speed control method called?

- Ans
- ☒ 1. Stalling current
 - ☐ 2. Eddy current
 - ☐ 3. Minimum current
 - ☐ 4. Divertor current

Question ID : 630680586797
Option 1 ID : 6306802295921
Option 2 ID : 6306802295920
Option 3 ID : 6306802295919
Option 4 ID : 6306802295918
Status : Answered
Chosen Option : 1

Q.24 कौन सौर तापीय विद्युत प्रौद्योगिकी को संकेंद्रित करने में रिसीवर पर सूर्य के प्रकाश को परावर्तित और संकेंद्रित करता है?

- Ans
- ☒ 1. दर्पण
 - ☐ 2. प्रतिघातक
 - ☐ 3. ईंधन सिंथेसाइज़र
 - ☐ 4. वाष्प जेनरेटर

Question ID : 630680586826
Option 1 ID : 6306802296036
Option 2 ID : 6306802296034
Option 3 ID : 6306802296035
Option 4 ID : 6306802296037

Status : Answered
Chosen Option : 3

Q.25 What is the meter constant of a single phase Induction type energymeter?

- Ans
- ☐ 1. Speed / No. of revolutions
 - ☐ 2. Braking torque/ Speed
 - ☐ 3. Braking torque/ No. of revolutions
 - ☒ 4. No. of revolutions / kWh

Question ID : 630680586788
Option 1 ID : 6306802295885
Option 2 ID : 6306802295882
Option 3 ID : 6306802295884
Option 4 ID : 6306802295883

Status : Answered
Chosen Option : 4

Q.26 What is the correct formula to measure reactive power in a circuit?

- Ans
- ☐ 1. $V I \sin \Phi^2$
 - ☐ 2. $V I \cos \Phi^2$
 - ☒ 3. $V I \sin \Phi$
 - ☐ 4. $V I \cos \Phi$

Question ID : 630680586783
Option 1 ID : 6306802295864
Option 2 ID : 6306802295865
Option 3 ID : 6306802295863
Option 4 ID : 6306802295862

Status : Answered
Chosen Option : 3

Q.27 What is the condition for maximum torque in relation to slip (S) in a three phase induction motor?

- Ans
- ☒ 1. $S = \Phi R_2 X_2$
 - ☒ 2. $S = R_2 / X_2$
 - ☒ 3. $S = R_2 X_2$
 - ☒ 4. $S = \Phi R_2 / X_2$

Question ID : 630680586808
Option 1 ID : 6306802295964
Option 2 ID : 6306802295962
Option 3 ID : 6306802295963
Option 4 ID : 6306802295965
Status : Answered
Chosen Option : 2

Q.28 What is the effect of the demagnetising component of armature reaction in a d.c. generator?

- Ans
- ☒ 1. It causes commutation in the armature coil
 - ☒ 2. It weakens the main pole flux
 - ☒ 3. It creates distortion
 - ☒ 4. It leads to constant Cu losses

Question ID : 630680586793
Option 1 ID : 6306802295904
Option 2 ID : 6306802295903
Option 3 ID : 6306802295902
Option 4 ID : 6306802295905
Status : Answered
Chosen Option : 2

Q.29 Which of the following factors involved in estimation and costing refers to the unexpected expenditure due to increase in cost rate of the material, loss due to floods etc.?

- Ans
- ☒ 1. Labour Charges
 - ☒ 2. Price List
 - ☒ 3. Contingencies
 - ☒ 4. Overhead Charges

Question ID : 630680586845
Option 1 ID : 6306802296112
Option 2 ID : 6306802296113
Option 3 ID : 6306802296111
Option 4 ID : 6306802296110
Status : Answered
Chosen Option : 3

Q.30 What does the type number of a control system indicate?

- Ans ☒ 1. Number of poles at the origin
- ☐ 2. Number of poles at the origin / 2
- ☐ 3. Total number of poles
- ☐ 4. Total number of poles / 2

Question ID : 630680586864
Option 1 ID : 6306802296187
Option 2 ID : 6306802296189
Option 3 ID : 6306802296186
Option 4 ID : 6306802296188
Status : Answered
Chosen Option : 3

Q.31 How can inductance of a transmission line be calculated?

- Ans ☐ 1. Current / Flux linkage
- ☐ 2. Flux linkage / Magnetic flux density
- ☒ 3. Flux linkage / Current
- ☐ 4. Magnetic flux density / Flux linkage

Question ID : 630680586833
Option 1 ID : 6306802296062
Option 2 ID : 6306802296064
Option 3 ID : 6306802296065
Option 4 ID : 6306802296063
Status : Answered
Chosen Option : 3

Q.32 What is the Norton's equivalent of a circuit?

- Ans ☒ 1. A constant current source with resistance in parallel.
- ☐ 2. A constant voltage source with conductance in parallel.
- ☐ 3. A constant current source with conductance in parallel.
- ☐ 4. A constant voltage source with resistance in parallel.

Question ID : 630680586770
Option 1 ID : 6306802295812
Option 2 ID : 6306802295811
Option 3 ID : 6306802295810
Option 4 ID : 6306802295813
Status : Answered
Chosen Option : 1

Q.33 छोटी प्रेषण लाइनों का लाइन विनियमन निम्नलिखित में से किसका माप है?

- Ans ☒ 1. ट्रांसमिशन लाइन की लंबाई के साथ कितना वोल्टेज घटाव हुआ है
- ☐ 2. लाइन के उच्च परिचालन वोल्टेज के कारण घटाव
- ☐ 3. धारा के पथ पर विद्युत क्षमता की कमी
- ☐ 4. प्राप्त अंतिम शक्ति (PR) से भेजी जाने वाली अंतिम शक्ति (PS) का अनुपात, प्रतिशत में व्यक्त किया गया।

Question ID : 630680586837
Option 1 ID : 6306802296079
Option 2 ID : 6306802296081
Option 3 ID : 6306802296078
Option 4 ID : 6306802296080
Status : Answered
Chosen Option : 4

Q.34 Which of the following static characteristics denotes the closeness with which individual measurements are departed or distributed about the average of number of measured values?

- Ans ☐ 1. Accuracy
- ☒ 2. Precision
- ☐ 3. Sensitivity
- ☐ 4. Point accuracy

Question ID : 630680586780
Option 1 ID : 6306802295850
Option 2 ID : 6306802295852
Option 3 ID : 6306802295853
Option 4 ID : 6306802295851
Status : Answered
Chosen Option : 4

Q.35 अस्थिर नाभिकों की संख्या के लिए प्रारंभिक मान से आधे होने में लगने वाले समय को क्या कहा जाता है?

- Ans ☐ 1. रेडियोधर्मिता
- ☒ 2. अर्ध जीवन
- ☐ 3. रेडियोधर्मी क्षय दर
- ☐ 4. क्षय दर

Question ID : 630680586820
Option 1 ID : 6306802296013
Option 2 ID : 6306802296010
Option 3 ID : 6306802296012
Option 4 ID : 6306802296011
Status : Answered
Chosen Option : 2

Q.36 If $F(s)$ is the Laplace transform of $f(t)$, then how will $F(s)$ be written in partial fraction method?

- Ans
- ☒ 1. $F(s) = D(s)/N(s)$
 - ☒ 2. $L^{-1} [F(s)]$
 - ☒ 3. $F(s) = N(s)/D(s)$
 - ☒ 4. $F(s) = D(s)/N(s)$

Question ID : 630680586778
Option 1 ID : 6306802295844
Option 2 ID : 6306802295843
Option 3 ID : 6306802295845
Option 4 ID : 6306802295842
Status : Answered
Chosen Option : 4

Q.37 How is the e.m.f. generated within the armature of a d.c. generator represented?

- Ans
- ☒ 1. $\Phi Z N P / A$ volts
 - ☒ 2. $\Phi / Z N (P/A)$ volts
 - ☒ 3. $\Phi Z (P/A)$ volts
 - ☒ 4. $\Phi Z N (P/A)$ volts

Question ID : 630680586792
Option 1 ID : 6306802295900
Option 2 ID : 6306802295899
Option 3 ID : 6306802295901
Option 4 ID : 6306802295898
Status : Answered
Chosen Option : 1

Q.38 How are poles operated in a homopolar transmission line?

- Ans
- ☒ 1. Parallel
 - ☒ 2. Star
 - ☒ 3. Series
 - ☒ 4. Delta

Question ID : 630680586867
Option 1 ID : 6306802296199
Option 2 ID : 6306802296200
Option 3 ID : 6306802296198
Option 4 ID : 6306802296201
Status : Answered
Chosen Option : 1

Q.39 Which component of a Francis turbine serves as the inlet for water into the turbine?

Ans ☒ 1. Spiral casing

☐ 2. Stay vane

☐ 3. Runner blade

☐ 4. Guide vane

Question ID : 630680586824

Option 1 ID : 6306802296026

Option 2 ID : 6306802296027

Option 3 ID : 6306802296029

Option 4 ID : 6306802296028

Status : Answered

Chosen Option : 3

Q.40 फीडिंग और सेक्शनिंग व्यवस्था में दो आसन्न सबस्टेशनों के बीच न्यूट्रल सेक्शन प्रदान करने का उद्देश्य क्या है?

Ans ☐ 1. 25 kV आपूर्ति के लाइन फेज वितरित करना

☒ 2. दो निकटवर्ती सबस्टेशनों द्वारा पोषित क्षेत्रों को अलग करना

☐ 3. OHE के दो खंडों को ब्रिज करना

☐ 4. खंड को आपूर्ति बंद करना

Question ID : 630680586871

Option 1 ID : 6306802296214

Option 2 ID : 6306802296216

Option 3 ID : 6306802296215

Option 4 ID : 6306802296217

Status : Answered

Chosen Option : 2

Q.41 What should be the internal resistance of an ideal constant voltage source?

Ans ☒ 1. Zero

☐ 2. Infinity

☐ 3. Equal to the value of voltage

☐ 4. Unity

Question ID : 630680586852

Option 1 ID : 6306802296138

Option 2 ID : 6306802296140

Option 3 ID : 6306802296141

Option 4 ID : 6306802296139

Status : Answered

Chosen Option : 1

Q.42 What are permanent magnets attached to in a brushless DC motor?

- Ans
- ☒ 1. High power transistors
 - ☒ 2. Rotor
 - ☒ 3. Electromagnets
 - ☒ 4. Stator

Question ID : 630680586798
Option 1 ID : 6306802295924
Option 2 ID : 6306802295922
Option 3 ID : 6306802295925
Option 4 ID : 6306802295923
Status : Answered
Chosen Option : 4

Q.43 How is transmission efficiency of a short line calculated?

- Ans
- ☒ 1. Sending end power / Receiving end power
 - ☒ 2. (Sending end power / Receiving end power) * 100
 - ☒ 3. Receiving end power / Sending end power
 - ☒ 4. (Receiving end power / Sending end power) * 100

Question ID : 630680586838
Option 1 ID : 6306802296085
Option 2 ID : 6306802296083
Option 3 ID : 6306802296084
Option 4 ID : 6306802296082
Status : Answered
Chosen Option : 4

Q.44 How is the relationship between self and mutual inductance expressed?

- Ans
- ☒ 1. $\sqrt{L_1 L_2} = M$
 - ☒ 2. $\sqrt{L_1 / L_2} = 2M$
 - ☒ 3. $\sqrt{L_1 / L_2} = M$
 - ☒ 4. $\sqrt{L_1 L_2} = 2M$

Question ID : 630680586876
Option 1 ID : 6306802296235
Option 2 ID : 6306802296237
Option 3 ID : 6306802296234
Option 4 ID : 6306802296236
Status : Answered
Chosen Option : 1

Q.45 How can the potential difference between two points in a ring main of a ring distribution system be reduced?

- Ans
- ☐ 1. By increasing the area of the feeder ring
 - ☐ 2. By reducing the cross section of the feeder ring
 - ☐ 3. By reducing the area of the ring
 - ☒ 4. By increasing the cross section of the feeder ring

Question ID : 630680586842
Option 1 ID : 6306802296101
Option 2 ID : 6306802296100
Option 3 ID : 6306802296098
Option 4 ID : 6306802296099
Status : Answered
Chosen Option : 4

Q.46 Which of the following is the most accurate methods of measuring low resistances?

- Ans
- ☐ 1. Substitution method
 - ☐ 2. Direct deflection method
 - ☐ 3. Wheatstone bridge method
 - ☒ 4. Kelvin double bridge method

Question ID : 630680586785
Option 1 ID : 6306802295870
Option 2 ID : 6306802295873
Option 3 ID : 6306802295872
Option 4 ID : 6306802295871
Status : Answered
Chosen Option : 4

Q.47 Stepper motor systems with which input drivers output more torque in high speed regions?

- Ans
- ☐ 1. Both AC and DC
 - ☐ 2. DC input
 - ☐ 3. Sinusoidal DC input
 - ☒ 4. AC input

Question ID : 630680586810
Option 1 ID : 6306802295972
Option 2 ID : 6306802295971
Option 3 ID : 6306802295973
Option 4 ID : 6306802295970
Status : Answered
Chosen Option : 3

Q.48 बताए गए गेटों में से कौन सा किसी भी बूलियन फलन को कार्यान्वित कर सकता है?

- Ans
- ☐ 1. NOT और NOR
 - ☐ 2. AND और NAND
 - ☒ 3. AND और INVERT
 - ☐ 4. XNOR और NAND

Question ID : 630680586856
Option 1 ID : 6306802296155
Option 2 ID : 6306802296157
Option 3 ID : 6306802296154
Option 4 ID : 6306802296156
Status : Answered
Chosen Option : 4

Q.49 In the matrix form of mesh analysis, what is the order of the resistance matrix same as?

- Ans
- ☒ 1. Number of loops in the circuit
 - ☐ 2. Number of terminals in the circuit
 - ☐ 3. Number of reference node
 - ☐ 4. Number of nodes in the circuit

Question ID : 630680586768
Option 1 ID : 6306802295803
Option 2 ID : 6306802295802
Option 3 ID : 6306802295805
Option 4 ID : 6306802295804
Status : Answered
Chosen Option : 2

Q.50 What is chain reaction in a nuclear power plant based on?

- Ans
- ☐ 1. Particle bombardment
 - ☒ 2. Fission
 - ☐ 3. Subatomic fusion
 - ☐ 4. Fusion

Question ID : 630680586822
Option 1 ID : 6306802296019
Option 2 ID : 6306802296020
Option 3 ID : 6306802296021
Option 4 ID : 6306802296018
Status : Answered
Chosen Option : 2

Q.51 Which earth electrodes are recommended for industrial loads above 30 HP?

- Ans
- ☒ 1. Aluminium plate
 - ☒ 2. Copper plate
 - ☒ 3. Steel plate
 - ☒ 4. GI plate

Question ID : 630680586846
Option 1 ID : 6306802296116
Option 2 ID : 6306802296114
Option 3 ID : 6306802296117
Option 4 ID : 6306802296115
Status : Answered
Chosen Option : 2

Q.52 What is the r.m.s. value of a symmetrical sinusoidal current?

- Ans
- ☒ 1. $0.606 \times \text{Max. value of current}$
 - ☒ 2. $0.909 \times \text{Max. value of current}$
 - ☒ 3. $0.707 \times \text{Max. value of current}$
 - ☒ 4. $0.505 \times \text{Max. value of current}$

Question ID : 630680586851
Option 1 ID : 6306802296135
Option 2 ID : 6306802296134
Option 3 ID : 6306802296137
Option 4 ID : 6306802296136
Status : Answered
Chosen Option : 3

Q.53 When does corona effect occur?

- Ans
- ☒ 1. Charging current of the line
 - ☒ 2. Mutual induction between the two lines
 - ☒ 3. When a conductor carrying high voltage ionizes the surrounding fluid, often air
 - ☒ 4. Voltage drop across the line

Question ID : 630680586866
Option 1 ID : 6306802296196
Option 2 ID : 6306802296197
Option 3 ID : 6306802296194
Option 4 ID : 6306802296195
Status : Answered
Chosen Option : 3

Q.54 X-Y प्लॉटर को किस प्रकार के विद्युत मापक यंत्र के रूप में वर्गीकृत किया गया है?

- Ans
- ☒ 1. सूचक उपकरण
 - ☒ 2. प्रतिकर्षण प्रकार का उपकरण
 - ☒ 3. एकीकृत उपकरण
 - ☒ 4. रिकॉर्डिंग उपकरण

Question ID : 630680586779
Option 1 ID : 6306802295846
Option 2 ID : 6306802295849
Option 3 ID : 6306802295848
Option 4 ID : 6306802295847
Status : Answered
Chosen Option : 4

Q.55 The position encoder provides an output corresponding to which of the following?

- Ans
- ☒ 1. Rotation of the shaft
 - ☒ 2. Number of shaft
 - ☒ 3. Position of control device
 - ☒ 4. Direction of the control device

Question ID : 630680586862
Option 1 ID : 6306802296180
Option 2 ID : 6306802296179
Option 3 ID : 6306802296181
Option 4 ID : 6306802296178
Status : Answered
Chosen Option : 3

Q.56 In a biochemical based power plant, what drives the generator to produce electric energy output?

- Ans
- ☒ 1. Turbine
 - ☒ 2. Alternator
 - ☒ 3. Lagoon
 - ☒ 4. Fermenter

Question ID : 630680586827
Option 1 ID : 6306802296039
Option 2 ID : 6306802296041
Option 3 ID : 6306802296040
Option 4 ID : 6306802296038
Status : Answered
Chosen Option : 4

Q.57 For source transformation, a Thevenin's equivalent circuit is transformed into which equivalent circuit?

- Ans
- ☒ 1. Star
 - ☒ 2. Superposition
 - ☒ 3. Norton
 - ☒ 4. Delta

Question ID : 630680586766
Option 1 ID : 6306802295796
Option 2 ID : 6306802295795
Option 3 ID : 6306802295794
Option 4 ID : 6306802295797
Status : Answered
Chosen Option : 3

Q.58 ज्योति तीव्रता की मानक इकाई क्या है?

- Ans
- ☒ 1. कैन्डेला
 - ☒ 2. लक्स
 - ☒ 3. रेडियंस
 - ☒ 4. डिग्री

Question ID : 630680586875
Option 1 ID : 6306802296233
Option 2 ID : 6306802296230
Option 3 ID : 6306802296231
Option 4 ID : 6306802296232
Status : Answered
Chosen Option : 1

Q.59 The positive electrodes of an electrostatic precipitator are present in which form?

- Ans
- ☒ 1. Loop
 - ☒ 2. Rod
 - ☒ 3. Wire mesh
 - ☒ 4. Plates

Question ID : 630680586819
Option 1 ID : 6306802296009
Option 2 ID : 6306802296006
Option 3 ID : 6306802296007
Option 4 ID : 6306802296008
Status : Answered
Chosen Option : 3

Q.60 What is the full form of FACTS controller?

- Ans
- ☐ 1. Ferranti AC transformer system
 - ☐ 2. Ferranti AC transmission system
 - ☐ 3. Flexible AC transformer system
 - ☒ 4. Flexible AC transmission system

Question ID : 630680586868
Option 1 ID : 6306802296204
Option 2 ID : 6306802296202
Option 3 ID : 6306802296205
Option 4 ID : 6306802296203
Status : Answered
Chosen Option : 4

Q.61

Which is the correct mathematical expression for relative error e_r ?

- Ans
- ☐ 1.
 $e_r = \text{true value} / \text{absolute error}$
 - ☐ 2.
 $e_r = \text{true value} / \text{measured value}$
 - ☒ 3.
 $e_r = \text{absolute error} / \text{true value}$
 - ☐ 4.
 $e_r = \text{measured value} / \text{true value}$

Question ID : 630680586781
Option 1 ID : 6306802295855
Option 2 ID : 6306802295856
Option 3 ID : 6306802295854
Option 4 ID : 6306802295857
Status : Answered
Chosen Option : 3

Q.62 Where is the start capacitor connected in a capacitor-start capacitor-run motor?

- Ans
- ☒ 1. In series with the auxiliary winding
 - ☐ 2. In parallel with the main winding
 - ☐ 3. In series with the main winding
 - ☐ 4. In parallel with the auxiliary winding

Question ID : 630680586812
Option 1 ID : 6306802295978
Option 2 ID : 6306802295981
Option 3 ID : 6306802295980
Option 4 ID : 6306802295979
Status : Answered
Chosen Option : 4

Q.63 समानांतर A.C. परिपथ की धारिता संवेदनशीलता को कैसे दर्शाया जाता है?

- Ans
- ☐ 1. $b = 1 / 2\pi fc$
 - ☐ 2. $2\pi f l$
 - ☐ 3. $1/2\pi f l$
 - ☒ 4. $b = 2\pi fc$

Question ID : 630680586772
Option 1 ID : 6306802295819
Option 2 ID : 6306802295820
Option 3 ID : 6306802295821
Option 4 ID : 6306802295818
Status : Answered
Chosen Option : 4

Q.64 What is the function of 3 phase star connected resistance unit in a wound rotor induction generator?

- Ans
- ☐ 1. Provide torque fluctuation
 - ☒ 2. Control the slip/speed of the generator
 - ☐ 3. Transmit electric energy to grid
 - ☐ 4. Induce voltage in the stator winding

Question ID : 630680586829
Option 1 ID : 6306802296049
Option 2 ID : 6306802296046
Option 3 ID : 6306802296047
Option 4 ID : 6306802296048
Status : Answered
Chosen Option : 2

Q.65 If a PMMC instrument has a coil of 100 turns, flux density of 0.15 Wb/m^2 , area of 80 mm^2 and current of 5 mA , then what will be its deflecting torque?

- Ans
- ☐ 1. $7 \times 10^{-7} \text{ Nm}$
 - ☐ 2. $0.7 \times 10^{-7} \text{ Nm}$
 - ☒ 3. $6 \times 10^{-6} \text{ Nm}$
 - ☐ 4. $0.2 \times 10^{-5} \text{ Nm}$

Question ID : 630680586784
Option 1 ID : 6306802295868
Option 2 ID : 6306802295869
Option 3 ID : 6306802295866
Option 4 ID : 6306802295867
Status : Answered
Chosen Option : 3

Q.66 How can the overall efficiency of a thermal power plant be defined?

Ans ☒ 1. (Generator efficiency) $\times$ (Efficiency of turbine including the condenser) $\times$ (Boiler efficiency)

☐ 2. (Generator efficiency) $\times$ (Efficiency of turbine including the condenser)

☐ 3. (Generator efficiency) $\times$ (Boiler efficiency)

☐ 4. (Efficiency of turbine including the condenser) $\times$ (Boiler efficiency)

Question ID : 630680586817

Option 1 ID : 6306802295998

Option 2 ID : 6306802296001

Option 3 ID : 6306802296000

Option 4 ID : 6306802295999

Status : Answered

Chosen Option : 1

Q.67 What is the correct voltage transformation ratio condition for a step up transformer?

Ans ☐ 1. $K < N_1 < 1$

☐ 2. $K < 1$

☒ 3. $K > 1$

☐ 4. $K = 1$

Question ID : 630680586802

Option 1 ID : 6306802295941

Option 2 ID : 6306802295938

Option 3 ID : 6306802295939

Option 4 ID : 6306802295940

Status : Answered

Chosen Option : 3

Q.68 तुल्यकालिक मोटर में Cu हानि किससे पूरी होती है?

Ans ☐ 1. आपूर्ति लाइन

☐ 2. मोटर AC इनपुट

☐ 3. आर्मेचर इनपुट

☒ 4. DC स्रोत

Question ID : 630680586816

Option 1 ID : 6306802295997

Option 2 ID : 6306802295994

Option 3 ID : 6306802295996

Option 4 ID : 6306802295995

Status : Answered

Chosen Option : 3

Q.69 How to calculate %transmission efficiency in case of a medium line?

Ans ☒ 1. $\{(\text{Power delivered} / \text{phase}) / [(\text{Power delivered} / \text{phase}) + (\text{Losses} / \text{phase})]\} * 100$

☐ 2. $\{(\text{Power delivered} / (\text{Losses} / \text{phase}))\} * 100$

☐ 3. $\{(\text{Power delivered} / (\text{Losses} / \text{phase}))\}$

☐ 4. $\{(\text{Power delivered} / \text{phase}) / [(\text{Power delivered} / \text{phase}) + (\text{Losses} / \text{phase})]\}$

Question ID : 630680586839

Option 1 ID : 6306802296088

Option 2 ID : 6306802296086

Option 3 ID : 6306802296087

Option 4 ID : 6306802296089

Status : Answered

Chosen Option : 1

Q.70 If three resistors in delta network are all equal in value, then what will be the value of each resistive branch in the star network?

Ans ☐ 1. Equal to the value of the delta resistors

☐ 2. One fourth the value of the delta resistors

☐ 3. Half the value of the delta resistors

☒ 4. One third the value of the delta resistors

Question ID : 630680586767

Option 1 ID : 6306802295800

Option 2 ID : 6306802295798

Option 3 ID : 6306802295799

Option 4 ID : 6306802295801

Status : Answered

Chosen Option : 4

Q.71 What is the formula to calculate wind power density?

Ans ☐ 1. $\text{air density} \times \text{wind speed}^2$

☐ 2. $(1/2) \times \text{air density} \times \text{wind speed}^2$

☒ 3. $(1/2) \times \text{air density} \times \text{wind speed}^3$

☐ 4. $\text{air density} \times \text{wind speed}^3$

Question ID : 630680586828

Option 1 ID : 6306802296044

Option 2 ID : 6306802296042

Option 3 ID : 6306802296043

Option 4 ID : 6306802296045

Status : Answered

Chosen Option : 3

Q.72 What is the part of the time response that remains even after the transient response has zero value for large values of 't' known as?

- Ans
- ☒ 1. Transient response
 - ☒ 2. Steady state term
 - ☒ 3. Transient term
 - ☒ 4. Steady state response

Question ID : 630680586863
Option 1 ID : 6306802296182
Option 2 ID : 6306802296185
Option 3 ID : 6306802296184
Option 4 ID : 6306802296183
Status : Answered
Chosen Option : 4

Q.73 How is the all day efficiency of a single phase transformer calculated?

- Ans
- ☒ 1. output in kWh/input in kWh (for 24 hours)
 - ☒ 2. input in kWh/output in kWh (for 12 hours)
 - ☒ 3. output in kWh/input in kWh (for 12 hours)
 - ☒ 4. input in kWh/output in kWh (for 24 hours)

Question ID : 630680586804
Option 1 ID : 6306802295948
Option 2 ID : 6306802295947
Option 3 ID : 6306802295946
Option 4 ID : 6306802295949
Status : Answered
Chosen Option : 1

Q.74 What kind of feedback is most commonly used in closed loop opamp applications

- Ans
- ☒ 1. Regenerative
 - ☒ 2. Degenerative
 - ☒ 3. Forward
 - ☒ 4. Generative

Question ID : 630680586854
Option 1 ID : 6306802296147
Option 2 ID : 6306802296149
Option 3 ID : 6306802296148
Option 4 ID : 6306802296146
Status : Answered
Chosen Option : 1

Q.75 How is the direction of induced current flow as per Faraday's law determined?

- Ans
- ☐ 1. Fleming's left hand rule
 - ☐ 2. Lenz's law
 - ☐ 3. Maxwell's Right-Hand Thumb Rule
 - ☒ 4. Fleming's right hand rule

Question ID : 630680586877
Option 1 ID : 6306802296239
Option 2 ID : 6306802296240
Option 3 ID : 6306802296241
Option 4 ID : 6306802296238
Status : Answered
Chosen Option : 4

Q.76 How is string efficiency of an insulator of n units defined?

- Ans
- ☒ 1. flashover voltage of string / $n \times$ flashover voltage of one unit
 - ☐ 2. $n \times$ flashover voltage of one unit/flashover voltage of string
 - ☐ 3. $n \times$ flashover voltage of string /flashover voltage of one unit
 - ☐ 4. flashover voltage of one unit/ $n \times$ flashover voltage of string

Question ID : 630680586869
Option 1 ID : 6306802296208
Option 2 ID : 6306802296209
Option 3 ID : 6306802296207
Option 4 ID : 6306802296206
Status : Answered
Chosen Option : 1

Q.77 What causes Ferranti effect in a transmission line?

- Ans
- ☐ 1. Permeability of the line
 - ☐ 2. Voltage drop across the line
 - ☒ 3. Charging current of the line
 - ☐ 4. Magnetic flux of the line

Question ID : 630680586865
Option 1 ID : 6306802296193
Option 2 ID : 6306802296191
Option 3 ID : 6306802296192
Option 4 ID : 6306802296190
Status : Answered
Chosen Option : 3

Q.78 If there are three phases a, b and c and the rotation of field structure of a three phase circuit is anti-clockwise, by what angle will emf of "c" lag behind "a"?

- Ans
- ☒ 1. 180°
 - ☒ 2. 220°
 - ☒ 3. 240°
 - ☒ 4. 120°

Question ID : 630680586774
Option 1 ID : 6306802295829
Option 2 ID : 6306802295828
Option 3 ID : 6306802295826
Option 4 ID : 6306802295827
Status : Answered
Chosen Option : 4

Q.79 Where does the differential relay sends the trip signal to if a fault is detected?

- Ans
- ☒ 1. Circuit breaker
 - ☒ 2. Power system
 - ☒ 3. Operating coil
 - ☒ 4. Current transformer

Question ID : 630680586884
Option 1 ID : 6306802296266
Option 2 ID : 6306802296268
Option 3 ID : 6306802296269
Option 4 ID : 6306802296267
Status : Answered
Chosen Option : 1

Q.80 सीधे जल-ट्यूब बॉयलर में तापन का क्षेत्र कैसे भिन्न हो सकता है?

- Ans
- ☒ 1. ट्यूबों की लंबाई अलग-अलग करके
 - ☒ 2. भट्टी क्षेत्र को अलग-अलग करके
 - ☒ 3. ट्यूबों के आसपास की गर्म गैसों को अलग-अलग करके
 - ☒ 4. विभिन्न ट्यूब डिज़ाइन का उपयोग करके

Question ID : 630680586818
Option 1 ID : 6306802296005
Option 2 ID : 6306802296003
Option 3 ID : 6306802296004
Option 4 ID : 6306802296002
Status : Answered
Chosen Option : 3

Q.81 What happens when the control phase voltage of an AC servomotor becomes zero?

- Ans
- ☒ 1. The air gap flux is reduced to minimum
 - ☒ 2. Motor develops an accelerating torque and gains speed
 - ☒ 3. The air gap flux is sinusoidally distributed
 - ☒ 4. Motor develops a decelerating torque and stops

Question ID : 630680586861
Option 1 ID : 6306802296177
Option 2 ID : 6306802296175
Option 3 ID : 6306802296176
Option 4 ID : 6306802296174
Status : Answered
Chosen Option : 4

Q.82 In an AC voltmeter Rectifier type, how does the bridge rectifier behave when reverse biased?

- Ans
- ☒ 1. It tends to bypass higher frequencies
 - ☒ 2. It exhibits high sensitivity because of high forward resistance
 - ☒ 3. It exhibits low sensitivity because of low forward resistance
 - ☒ 4. It tends to bypass lower frequencies

Question ID : 630680586789
Option 1 ID : 6306802295889
Option 2 ID : 6306802295886
Option 3 ID : 6306802295887
Option 4 ID : 6306802295888
Status : Answered
Chosen Option : 2

Q.83 What is the correct formula to calculate diversity factor?

- Ans
- ☒ 1. Maximum demand / Connected load
 - ☒ 2. Sum of individual maximum demand / Maximum demand
 - ☒ 3. Connected load/ Maximum demand
 - ☒ 4. Maximum demand / Sum of individual maximum demand

Question ID : 630680586831
Option 1 ID : 6306802296054
Option 2 ID : 6306802296056
Option 3 ID : 6306802296055
Option 4 ID : 6306802296057
Status : Answered
Chosen Option : 2

Q.84 How is the circuit length used to calculate voltage drop in a distributor defined?

- Ans
- ☐ 1. Distance between the current source 1 and current source 2
 - ☐ 2. Distance between the current source and voltage source
 - ☒ 3. Distance from the point of origin to the load end of the circuit
 - ☐ 4. Distance between the voltage source 1 and voltage source 2

Question ID : 630680586843
Option 1 ID : 6306802296103
Option 2 ID : 6306802296105
Option 3 ID : 6306802296102
Option 4 ID : 6306802296104
Status : Answered
Chosen Option : 4

Q.85 What is the bandwidth of an ideal operational amplifier?

- Ans
- ☐ 1. Unity
 - ☐ 2. Less than frequency signal
 - ☐ 3. Minimum
 - ☒ 4. Infinite

Question ID : 630680586853
Option 1 ID : 6306802296142
Option 2 ID : 6306802296145
Option 3 ID : 6306802296143
Option 4 ID : 6306802296144
Status : Answered
Chosen Option : 4

Q.86 Which of the following lighting calculation method is applicable for the cases where all sources produce uniform illumination over the working plane or an average value is required?

- Ans
- ☐ 1. Point-to-point method
 - ☐ 2. Watts-per-square meter method
 - ☐ 3. Inverse square law method
 - ☒ 4. Light flux method

Question ID : 630680586874
Option 1 ID : 6306802296226
Option 2 ID : 6306802296227
Option 3 ID : 6306802296229
Option 4 ID : 6306802296228
Status : Answered
Chosen Option : 4

Q.87 How many terminals are there in a field effect transistor?

- Ans ☒ 1. 3
☐ 2. 2
☐ 3. 1
☐ 4. 4

Question ID : 630680586849
Option 1 ID : 6306802296126
Option 2 ID : 6306802296127
Option 3 ID : 6306802296129
Option 4 ID : 6306802296128
Status : Answered
Chosen Option : 1

Q.88 If there are n nodes in the node method of analysis, how many node equations will be there?

- Ans ☐ 1. n
☐ 2. n+1
☐ 3. n/2
☒ 4. n-1

Question ID : 630680586769
Option 1 ID : 6306802295806
Option 2 ID : 6306802295808
Option 3 ID : 6306802295809
Option 4 ID : 6306802295807
Status : Answered
Chosen Option : 4

Q.89 How many total winding transformers are present in a current earth leakage circuit breaker?

- Ans ☐ 1. 1
☐ 2. 2
☒ 3. 3
☐ 4. 4

Question ID : 630680586882
Option 1 ID : 6306802296260
Option 2 ID : 6306802296258
Option 3 ID : 6306802296259
Option 4 ID : 6306802296261
Status : Answered
Chosen Option : 3

Q.90 What is the effect of blast of SF6 gas in sulphur hexafluoride circuit breaker?

- Ans
- ☒ 1. It decreases the dielectric strength of the medium
 - ☒ 2. It increases the strength of the arc
 - ☒ 3. It reduces the temperature of the arc
 - ☒ 4. It increases the temperature of the arc

Question ID : 630680586880
Option 1 ID : 6306802296253
Option 2 ID : 6306802296252
Option 3 ID : 6306802296250
Option 4 ID : 6306802296251
Status : Answered
Chosen Option : 1

Q.91 Plant capacity factor mainly depends on which of the following factors?

- Ans
- ☒ 1. Type of fuel
 - ☒ 2. Load factor
 - ☒ 3. Connected load
 - ☒ 4. Peak load

Question ID : 630680586832
Option 1 ID : 6306802296058
Option 2 ID : 6306802296060
Option 3 ID : 6306802296059
Option 4 ID : 6306802296061
Status : Answered
Chosen Option : 2

Q.92 What is the form factor of a single phase ideal transformer?

- Ans
- ☒ 1. 1.17
 - ☒ 2. 1.14
 - ☒ 3. 1.13
 - ☒ 4. 1.11

Question ID : 630680586800
Option 1 ID : 6306802295933
Option 2 ID : 6306802295931
Option 3 ID : 6306802295932
Option 4 ID : 6306802295930
Status : Answered
Chosen Option : 4

Q.93 What is the Z parameter of a linear time invariant two port network?

- Ans
- ☐ 1. Short circuit admittance parameter
 - ☐ 2. Inverse hybrid parameter set
 - ☒ 3. Open-circuit impedance parameter
 - ☐ 4. Hybrid parameter

Question ID : 630680586775
Option 1 ID : 6306802295830
Option 2 ID : 6306802295833
Option 3 ID : 6306802295831
Option 4 ID : 6306802295832
Status : Answered
Chosen Option : 3

Q.94 Which of the following is a mandatory condition for parallel operation of transformers?

- Ans
- ☐ 1. Different polarity
 - ☐ 2. Different but low phase sequence
 - ☒ 3. Same phase shift angle
 - ☐ 4. 90° phase shift angle

Question ID : 630680586806
Option 1 ID : 6306802295956
Option 2 ID : 6306802295957
Option 3 ID : 6306802295954
Option 4 ID : 6306802295955
Status : Answered
Chosen Option : 3

Q.95 What happens to the unused steam in a boiling water reactor plant?

- Ans
- ☐ 1. It moves through the core absorbing heat
 - ☐ 2. It is sent to the steam line
 - ☐ 3. It is sent to the main turbine
 - ☒ 4. It is condensed into water

Question ID : 630680586821
Option 1 ID : 6306802296014
Option 2 ID : 6306802296016
Option 3 ID : 6306802296017
Option 4 ID : 6306802296015
Status : Answered
Chosen Option : 4

Q.96 What is the power factor of a parallel AC circuit at resonance?

- Ans
- ☒ 1. Secant of the angle of lead
 - ☒ 2. Infinity
 - ☒ 3. Unity
 - ☒ 4. Sine of the angle of lead

Question ID : 630680586773
Option 1 ID : 6306802295822
Option 2 ID : 6306802295824
Option 3 ID : 6306802295823
Option 4 ID : 6306802295825
Status : Answered
Chosen Option : 2

Q.97 How is form factor mathematically expressed?

- Ans
- ☒ 1. Root mean square value of current / Average value of alternating current
 - ☒ 2. Average value of alternating current / Root mean square value of current
 - ☒ 3. Root mean square value of current / Average value of alternating voltage
 - ☒ 4. Average value of alternating voltage / Root mean square value of current

Question ID : 630680586879
Option 1 ID : 6306802296247
Option 2 ID : 6306802296246
Option 3 ID : 6306802296249
Option 4 ID : 6306802296248
Status : Answered
Chosen Option : 1

Q.98 What is the output if both inputs of an XNOR gate are at the opposite logic level?

- Ans
- ☒ 1. 1
 - ☒ 2. 0
 - ☒ 3. No output
 - ☒ 4. Either 0 or 1

Question ID : 630680586855
Option 1 ID : 6306802296150
Option 2 ID : 6306802296152
Option 3 ID : 6306802296151
Option 4 ID : 6306802296153
Status : Answered
Chosen Option : 4

Q.99 विद्युत लोकोमोटिव कहाँ से शक्ति प्राप्त करता है?

- Ans ☒ 1. शिरोपरि उपकरण
☐ 2. मुख्य दिष्टकारी
☐ 3. मोटर ब्लोअर
☐ 4. मुख्य ट्रांसफार्मर

Question ID : 630680586873
Option 1 ID : 6306802296222
Option 2 ID : 6306802296224
Option 3 ID : 6306802296223
Option 4 ID : 6306802296225
Status : Answered
Chosen Option : 4

Q.100 While designing a street lighting system, the distance between two street light points should not be more than how many metres to obtain uniform level of illumination?

- Ans ☐ 1. 30 m
☒ 2. 35 m
☐ 3. 20 m
☐ 4. 25 m

Question ID : 630680586847
Option 1 ID : 6306802296121
Option 2 ID : 6306802296120
Option 3 ID : 6306802296118
Option 4 ID : 6306802296119
Status : Answered
Chosen Option : 4

Q.101 Which is the fixed coil in a single phase dynamometer type wattmeter?

- Ans ☒ 1. Current coil
☐ 2. Pressure coil
☐ 3. Voltage coil
☐ 4. Resistance coil

Question ID : 630680586782
Option 1 ID : 6306802295860
Option 2 ID : 6306802295859
Option 3 ID : 6306802295858
Option 4 ID : 6306802295861
Status : Answered
Chosen Option : 1

Q.102 What is the working principle of a DC generator?

- Ans
- ☐ 1. Electromotive theory
 - ☐ 2. Electrotherapy
 - ☒ 3. Electro-magnetic induction
 - ☐ 4. Theory of relative permeability

Question ID : 630680586791
Option 1 ID : 6306802295894
Option 2 ID : 6306802295896
Option 3 ID : 6306802295897
Option 4 ID : 6306802295895
Status : Answered
Chosen Option : 3

Q.103 स्कॉट-T कनेक्शन में दो ट्रांसफार्मर कैसे जुड़े हुए होते हैं?

- Ans
- ☐ 1. विद्युत और चुंबकीय दोनों रूप से
 - ☒ 2. विद्युत रूप से
 - ☐ 3. चुंबकीय
 - ☐ 4. टीज़र ट्रांसफार्मर का उपयोग करके

Question ID : 630680586805
Option 1 ID : 6306802295950
Option 2 ID : 6306802295951
Option 3 ID : 6306802295952
Option 4 ID : 6306802295953
Status : Answered
Chosen Option : 1

Q.104 What is the third quadrant operation in a four quadrant three phase induction motor known as?

- Ans
- ☐ 1. Forward motoring
 - ☐ 2. Reverse braking
 - ☐ 3. Forward braking
 - ☒ 4. Reverse motoring

Question ID : 630680586809
Option 1 ID : 6306802295967
Option 2 ID : 6306802295966
Option 3 ID : 6306802295969
Option 4 ID : 6306802295968
Status : Answered
Chosen Option : 4

Q.105 As per Scaling theorem, if K is a constant, then what will be the Laplace transform of $K f(t)$?

- Ans
- ☒ 1. $L \{K f(t)\} = K$
 - ☒ 2. $L \{K f(t)\} = K F(s)$
 - ☒ 3. $L \{K f(t)\} = F(s)$
 - ☒ 4. $L \{K f(t)\} = 2K F(s)$

Question ID : 630680586777
Option 1 ID : 6306802295840
Option 2 ID : 6306802295838
Option 3 ID : 6306802295841
Option 4 ID : 6306802295839
Status : Answered
Chosen Option : 2

Q.106 What is the rule for block diagram reduction of parallelly connected blocks?

- Ans
- ☒ 1. The overall transfer function of all the blocks is the multiplication of the transfer function of each separate block in the connection
 - ☒ 2. The overall transfer function of all the blocks is the division of the transfer function of each separate block in the connection
 - ☒ 3. The transfer function of the whole system will be the vector sum of the transfer function of each block multiplied by two
 - ☒ 4. The transfer function of the whole system will be the addition of the transfer function of each block

Question ID : 630680586860
Option 1 ID : 6306802296170
Option 2 ID : 6306802296172
Option 3 ID : 6306802296173
Option 4 ID : 6306802296171
Status : Answered
Chosen Option : 4

Q.107 If the slip of a motor at full load is 3% and its synchronous speed is 750 r.p.m., calculate the actual speed (N) of the motor.

- Ans
- ☒ 1. $N = 727.5$ r.p.m.
 - ☒ 2. $N = 725$ r.p.m.
 - ☒ 3. $N = 722.7$ r.p.m.
 - ☒ 4. $N = 725.4$ r.p.m.

Question ID : 630680586807
Option 1 ID : 6306802295959
Option 2 ID : 6306802295958
Option 3 ID : 6306802295960
Option 4 ID : 6306802295961
Status : Answered
Chosen Option : 1

Q.108 What is the zero of the given transfer function $G(z)=0$?

- Ans
- ☒ 1. $z/g(0)$
 - ☒ 2. $z0$
 - ☒ 3. $g/z(o)$
 - ☒ 4. $g0$

Question ID : 630680586859
Option 1 ID : 6306802296168
Option 2 ID : 6306802296166
Option 3 ID : 6306802296169
Option 4 ID : 6306802296167
Status : Answered
Chosen Option : 3

Q.109 What is the unit of C parameter of a short transmission line?

- Ans
- ☒ 1. Tesla
 - ☒ 2. Henry
 - ☒ 3. Siemens
 - ☒ 4. Ohms

Question ID : 630680586836
Option 1 ID : 6306802296076
Option 2 ID : 6306802296075
Option 3 ID : 6306802296077
Option 4 ID : 6306802296074
Status : Answered
Chosen Option : 3

Q.110 What is the MCCB current rating for motors?

- Ans
- ☒ 1. 130% of starting current
 - ☒ 2. 120% of starting current
 - ☒ 3. 125% of starting current
 - ☒ 4. 135% of starting current

Question ID : 630680586881
Option 1 ID : 6306802296256
Option 2 ID : 6306802296255
Option 3 ID : 6306802296257
Option 4 ID : 6306802296254
Status : Answered
Chosen Option : 3

Q.111 What is the necessity of transposition of conductors in transmission lines?

- Ans
- ☒ 1. Support the cable capacitance
 - ☒ 2. Equalise the mutual inductance and capacitance between the lines
 - ☐ 3. Increase the magnetic field in the conductor
 - ☐ 4. Increase the mutual inductance

Question ID : 630680586835
Option 1 ID : 6306802296072
Option 2 ID : 6306802296070
Option 3 ID : 6306802296071
Option 4 ID : 6306802296073
Status : Answered
Chosen Option : 2

Q.112 For supports at equal level in an overhead transmission line, where is the lowest point between two equilevel supports?

- Ans
- ☒ 1. Mid span
 - ☐ 2. Entire span length
 - ☐ 3. Lower level
 - ☐ 4. Higher level

Question ID : 630680586870
Option 1 ID : 6306802296210
Option 2 ID : 6306802296211
Option 3 ID : 6306802296212
Option 4 ID : 6306802296213
Status : Answered
Chosen Option : 1

Q.113 एक कक्ष की विद्युत प्रणाली से प्रत्येक 20W के पाँच बल्ब जुड़े हुए हैं। यदि एक समय में केवल तीन का उपयोग किया जा रहा है, तो माँग गुणक निर्धारित करें।

- Ans
- ☐ 1. 0.4
 - ☐ 2. 0.5
 - ☒ 3. 0.6
 - ☐ 4. 0.8

Question ID : 630680586830
Option 1 ID : 6306802296051
Option 2 ID : 6306802296052
Option 3 ID : 6306802296053
Option 4 ID : 6306802296050
Status : Answered
Chosen Option : 3

Q.114 What is the formula to calculate sag S for supports at unequal level, from the lower level? X is horizontal distance of lowest point from lower level support, W is weight per unit length and T is tension

Ans

☐ 1. $S = WX/(2T)$

☐ 2. $S = WX/(8T)$

☒ 3. $S = WX^2/(2T)$

☐ 4. $S = WX^2/(8T)$

Question ID : 630680586840
Option 1 ID : 6306802296092
Option 2 ID : 6306802296091
Option 3 ID : 6306802296093
Option 4 ID : 6306802296090

Status : Answered

Chosen Option : 3

Q.115 What is the significance of back e.m.f. in a D.C. motor?

Ans

☐ 1. It regulates the drop

☐ 2. It controls the flux leakage

☒ 3. It regulates the input power as per the extra load

☐ 4. It amplifies the current

Question ID : 630680586794
Option 1 ID : 6306802295909
Option 2 ID : 6306802295907
Option 3 ID : 6306802295906
Option 4 ID : 6306802295908

Status : Answered

Chosen Option : 3

Q.116 How is the potential energy of water at height given in the hydrological cycle of a hydro power plant?

Ans

☐ 1. $PE = m/g$

☒ 2. $PE = mgH$

☐ 3. $PE = mg$

☐ 4. $PE = mg/H$

Question ID : 630680586823
Option 1 ID : 6306802296024
Option 2 ID : 6306802296025
Option 3 ID : 6306802296022
Option 4 ID : 6306802296023

Status : Answered

Chosen Option : 2

Q.117 What is result of proximity effect in a transmission line?

- Ans
- ☐ 1. Decrement of the alternating voltage of the conductor
 - ☐ 2. Increment of the alternating voltage of the conductor
 - ☒ 3. Increment of the apparent resistance of the conductor
 - ☐ 4. Decrement of the apparent resistance of the conductor

Question ID : 630680586834

Option 1 ID : 6306802296069

Option 2 ID : 6306802296068

Option 3 ID : 6306802296067

Option 4 ID : 6306802296066

Status : Answered

Chosen Option : 3

Q.118 जलविद्युत ऊर्जा संयंत्र में सर्ज टंकी का क्या उपयोग है?

- Ans
- ☐ 1. जल प्रवाह दर को नियंत्रित करना
 - ☐ 2. जल प्रवाह दर में बदलाव करना
 - ☐ 3. पानी के धमधमाहट रव का प्रतिकार करना
 - ☒ 4. प्रणाली में दाब परिवर्तन को नियंत्रित करना

Question ID : 630680586825

Option 1 ID : 6306802296033

Option 2 ID : 6306802296032

Option 3 ID : 6306802296031

Option 4 ID : 6306802296030

Status : Answered

Chosen Option : 3

Q.119 Which two port network parameter is called the short circuit driving point input admittance?

- Ans
- ☐ 1. Y_{12}
 - ☐ 2. Y_{21}
 - ☒ 3. Y_{11}
 - ☐ 4. Y_{22}

Question ID : 630680586776

Option 1 ID : 6306802295837

Option 2 ID : 6306802295834

Option 3 ID : 6306802295836

Option 4 ID : 6306802295835

Status : Answered

Chosen Option : 1

Q.120 What happens to the resultant voltage if a synchronous motor is loaded with constant excitation?

- Ans
- ☐ 1. It falls back in phase
 - ☒ 2. It increases
 - ☐ 3. It decreases
 - ☐ 4. It becomes zero

Question ID : 630680586815
Option 1 ID : 6306802295990
Option 2 ID : 6306802295993
Option 3 ID : 6306802295992
Option 4 ID : 6306802295991
Status : Answered
Chosen Option : 4

Section : General English

Q.1 Choose the most appropriate article for the given blank in a sentence.
Only _____ one-bedroom flat is available for rent in this area.

- Ans
- ☐ 1. An
 - ☐ 2. The
 - ☐ 3. No Article
 - ☒ 4. A

Question ID : 630680586515
Option 1 ID : 6306802294795
Option 2 ID : 6306802294796
Option 3 ID : 6306802294797
Option 4 ID : 6306802294794
Status : Answered
Chosen Option : 3

Q.2 Choose the most suitable option to fill in the blank.
The teacher has to come _____ the students to arrange everything for PTM.

- Ans
- ☒ 1. Before
 - ☐ 2. Between
 - ☐ 3. Through
 - ☐ 4. By

Question ID : 630680586502
Option 1 ID : 6306802294746
Option 2 ID : 6306802294747
Option 3 ID : 6306802294749
Option 4 ID : 6306802294748
Status : Answered
Chosen Option : 1

Q.3 Choose the most appropriate article for the given blank in a sentence.
Rakesh studies in one of _____ most reputed universities in India.

- Ans
- ☒ 1. An
 - ☒ 2. A
 - ☒ 3. The
 - ☒ 4. No Article

Question ID : 630680586514
Option 1 ID : 6306802294791
Option 2 ID : 6306802294790
Option 3 ID : 6306802294792
Option 4 ID : 6306802294793
Status : Answered
Chosen Option : 3

Q.4 Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

- A. in fact she was twelve, a happy, uncomplicated child with a nature as open as the red hibiscus that decorated her black, waist-length hair
- B. her father had had some success through buying and clearing land around Rio Cristalino and planting it with coffee
- C. in her long white Sunday dress you might have taken Ginnie Narine for fourteen or fifteen generations earlier her family had come to Trinidad from India as overseers on the sugar plantations

- Ans
- ☒ 1. A,B,D,C
 - ☒ 2. D,A,B,C
 - ☒ 3. C,A,D,B
 - ☒ 4. B,A,D,C

Question ID : 630680586494
Option 1 ID : 6306802294720
Option 2 ID : 6306802294718
Option 3 ID : 6306802294719
Option 4 ID : 6306802294721
Status : Answered
Chosen Option : 2

Q.5 Choose the most suitable option to fill in the blank.
I have the doctor's appointment in the morning _____ 11 a.m.

- Ans
- ☒ 1. In
 - ☒ 2. At
 - ☒ 3. between
 - ☒ 4. On

Question ID : 630680586491
Option 1 ID : 6306802294707
Option 2 ID : 6306802294708
Option 3 ID : 6306802294709
Option 4 ID : 6306802294706
Status : Answered
Chosen Option : 2

Q.6 Choose the most appropriate antonym of the underlined word in the given sentence.
People and the government panicked when petrol stations went unfilled and food prices started soaring.

- Ans
- ☒ 1. Alarmed
 - ☒ 2. Petrified
 - ☒ 3. Courageous
 - ☒ 4. Stunned

Question ID : 630680586488
Option 1 ID : 6306802294696
Option 2 ID : 6306802294694
Option 3 ID : 6306802294695
Option 4 ID : 6306802294697
Status : Answered
Chosen Option : 3

Q.7 Choose the most appropriate synonym of the given word.
Prudence

- Ans
- ☒ 1. Frugality
 - ☒ 2. Derision
 - ☒ 3. Neglect
 - ☒ 4. Squandering

Question ID : 630680586511
Option 1 ID : 6306802294781
Option 2 ID : 6306802294778
Option 3 ID : 6306802294780
Option 4 ID : 6306802294779
Status : Answered
Chosen Option : 4



Comprehension:

Read the passage given below and answer the following questions.

A Stupa (literally “heap” or “pile”) is a reliquary, a shrine containing the remains of a holy or sainted person and/or artifacts (relics) associated with them, originating in India prior to the 5th century BCE as tombs of holy men and evolving afterwards into sacred sites dedicated to the Buddha (l. c. 563 - c. 483 BCE).

Later, stupas were also raised to honor Buddhist arhats (saints), bodhisattvas (enlightened ones), other saintly figures, or local deities. A stupa is a hemispherical structure, with a spire at the top, sometimes situated on a base that varies in shape and size (depending on the designated purpose of that particular stupa) surrounded by a walkway for visitors. Some stupas, such as the Great Stupa at Sanchi, India, or the Boudhanath Stupa at Kathmandu, Nepal, are large, ornate structures while others are more modest.

The construction of stupas, on a large scale and associated with Buddhism, began throughout India during the reign of Ashoka the Great (268-232 BCE) of the Mauryan Empire (322-185 BCE) after his conversion to Buddhism. Prior to Ashoka's reign, there were eight stupas (or ten, according to some scholars) dedicated to the Buddha (and containing his cremated remains) at different sites, which correlated to important events in his life. In an effort to spread Buddhism and encourage the enlightenment of his subjects, Ashoka had the remains disinterred and ordered the construction of many more (84,000, according to legend), each one receiving a certain allotment of the remains which empowered the structure with mystical energy.

SubQuestion No : 8

Q.8 Identify the tone of the passage.

- Ans ☒ 1. Satirical
- ☒ 2. Informative
- ☒ 3. Humorous
- ☒ 4. Critical

Question ID : 630680586496
Option 1 ID : 6306802294724
Option 2 ID : 6306802294725
Option 3 ID : 6306802294723
Option 4 ID : 6306802294722
Status : Answered
Chosen Option : 2



Comprehension:

Read the passage given below and answer the following questions.

A Stupa (literally “heap” or “pile”) is a reliquary, a shrine containing the remains of a holy or sainted person and/or artifacts (relics) associated with them, originating in India prior to the 5th century BCE as tombs of holy men and evolving afterwards into sacred sites dedicated to the Buddha (l. c. 563 - c. 483 BCE).

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SubQuestion No : 9

Q.9 Select the most suitable synonym of the given word from the passage.
sacred

- Ans ☒ 1. unholy
 ☒ 2. Divine
 ☒ 3. Profane
 ☒ 4. Vulnerable

Question ID : 630680586498
Option 1 ID : 6306802294731
Option 2 ID : 6306802294732
Option 3 ID : 6306802294733
Option 4 ID : 6306802294730
Status : Answered
Chosen Option : 2



Comprehension:

Read the passage given below and answer the following questions.

A Stupa (literally “heap” or “pile”) is a reliquary, a shrine containing the remains of a holy or sainted person and/or artifacts (relics) associated with them, originating in India prior to the 5th century BCE as tombs of holy men and evolving afterwards into sacred sites dedicated to the Buddha (l. c. 563 - c. 483 BCE).

Later, stupas were also raised to honor Buddhist arhats (saints), bodhisattvas (enlightened ones), other saintly figures, or local deities. A stupa is a hemispherical structure, with a spire at the top, sometimes situated on a base that varies in shape and size (depending on the designated purpose of that particular stupa) surrounded by a walkway for visitors. Some stupas, such as the Great Stupa at Sanchi, India, or the Boudhanath Stupa at Kathmandu, Nepal, are large, ornate structures while others are more modest.

The construction of stupas, on a large scale and associated with Buddhism, began throughout India during the reign of Ashoka the Great (268-232 BCE) of the Mauryan Empire (322-185 BCE) after his conversion to Buddhism. Prior to Ashoka's reign, there were eight stupas (or ten, according to some scholars) dedicated to the Buddha (and containing his cremated remains) at different sites, which correlated to important events in his life. In an effort to spread Buddhism and encourage the enlightenment of his subjects, Ashoka had the remains disinterred and ordered the construction of many more (84,000, according to legend), each one receiving a certain allotment of the remains which empowered the structure with mystical energy.

SubQuestion No : 10

Q.10 Identify the structure of the passage.

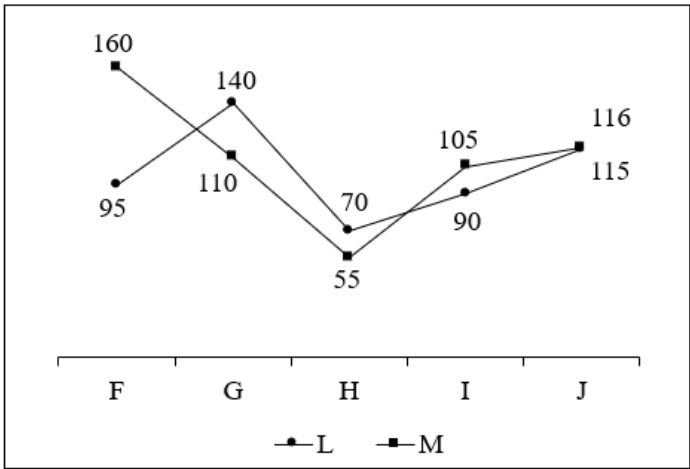
- Ans
- ☒ 1. Compare and contrast
 - ☒ 2. Classification
 - ☒ 3. Cause and effect
 - ☒ 4. Descriptive

Question ID : 630680586497
Option 1 ID : 6306802294728
Option 2 ID : 6306802294729
Option 3 ID : 6306802294727
Option 4 ID : 6306802294726
Status : Answered
Chosen Option : 2

Section : Reasoning



Q.1 The line chart given below shows the cost of two fruits in five different shops.



What is the difference between the cost of fruit L and M in all five shops?

- Ans ☒ 1. 22
☒ 2. 36
☒ 3. 28
☒ 4. 44

Question ID : 630680586597

Option 1 ID : 6306802295119

Option 2 ID : 6306802295118

Option 3 ID : 6306802295121

Option 4 ID : 6306802295120

Status : Answered

Chosen Option : 2

Q.2 P, Q, R, S, T, U तथा V उत्तर दिशा की ओर मुख करके एक पंक्ति में बैठे हैं। U, T के निकटतम दाएं है। T, V के दाएं से चौथे स्थान पर है। R, Q तथा S का पड़ोसी है। जो व्यक्ति S के बाएं से तीसरे स्थान पर है, वह किसी एक छोर पर है। V के ठीक दाएँ ओर कौन बैठा है?

- Ans ☒ 1. R
☒ 2. S
☒ 3. Q
☒ 4. P



Question ID : 630680586569

Option 1 ID : 6306802295008

Option 2 ID : 6306802295009

Option 3 ID : 6306802295006

Option 4 ID : 6306802295007

Status : Answered

Chosen Option : 3

Q.3 सप्ताह में सोमवार से शुक्रवार तक पाँच नाटक P1, P2, P3, P4 और P5 का मंचन किया जाना है। प्रत्येक दिन केवल एक नाटक का मंचन किया जाएगा। P4 और P5 का मंचन पहला या अंतिम नहीं होना चाहिए। P3 को P5 के ठीक पहले रखा जाना चाहिए। P2 का मंचन P4 के तुरंत बाद किया जाना चाहिए। P1 और P2 के बीच एक नाटक का मंचन किया जाता है। कौन सा नाटक बुधवार को मंचित होगा?

- Ans
- ☒ 1. P2
 - ☒ 2. P4
 - ☒ 3. P3
 - ☒ 4. P1

Question ID : 630680586590
Option 1 ID : 6306802295090
Option 2 ID : 6306802295093
Option 3 ID : 6306802295092
Option 4 ID : 6306802295091
Status : Answered
Chosen Option : 4

Q.4 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

PQRT, LMNP, HIJL, DEFH, ?

- Ans
- ☒ 1. ZMRQ
 - ☒ 2. ZABD
 - ☒ 3. ZMNR
 - ☒ 4. YRTD

Question ID : 630680586572
Option 1 ID : 6306802295021
Option 2 ID : 6306802295018
Option 3 ID : 6306802295019
Option 4 ID : 6306802295020
Status : Answered
Chosen Option : 2

Q.5 अक्षरों से बनी नीचे दी गई स्ट्रिंग पर विचार करें। कितने स्वर ऐसे हैं जिनके ठीक पहले तथा ठीक बाद में एक व्यंजन है?

XEYGD IUMNGUHWLEMF IUFWUDJOKI JLAM

- Ans
- ☒ 1. 7
 - ☒ 2. 5
 - ☒ 3. 6
 - ☒ 4. 4

Question ID : 630680586581
Option 1 ID : 6306802295055
Option 2 ID : 6306802295054
Option 3 ID : 6306802295056
Option 4 ID : 6306802295057
Status : Answered
Chosen Option : 1

Q.6 नीचे दिए गए प्रश्न में कुछ कथन और उनके बाद उन कथनों पर आधारित कुछ निष्कर्ष दिए गए हैं। दिए गए कथनों को सही माने, चाहे उनमें सामान्य ज्ञात तथ्यों से भिन्नता हो। सभी निष्कर्ष पढ़ें और फिर निर्धारित करें कि दिए गए कौन से निष्कर्ष, दिए गए कथनों के आधार पर युक्तिसंगत हैं।

कथन:

- I. सभी नौ, छः है।
- II. कुछ छः, सात हैं।

निष्कर्ष:

- I. कुछ सात नौ नहीं हैं।
- II. कोई भी छः नौ नहीं है।
- III. कुछ छः सात नहीं हैं।

- Ans
- ☒ 1. सभी निष्कर्ष अनुसरण करते हैं
 - ☒ 2. कोई भी निष्कर्ष अनुसरण नहीं करता है
 - ☒ 3. केवल निष्कर्ष II अनुसरण करता है
 - ☒ 4. दोनों निष्कर्ष I तथा III अनुसरण करते हैं

Question ID : 630680586594
Option 1 ID : 6306802295108
Option 2 ID : 6306802295107
Option 3 ID : 6306802295109
Option 4 ID : 6306802295106
Status : Answered
Chosen Option : 4

Q.7 In the following question, select the missing number from the given series.

15, 17, 36, 110, 442, ?

- Ans
- ☒ 1. 2210
 - ☒ 2. 2205
 - ☒ 3. 2212
 - ☒ 4. 2305

Question ID : 630680586598
Option 1 ID : 6306802295123
Option 2 ID : 6306802295124
Option 3 ID : 6306802295122
Option 4 ID : 6306802295125
Status : Answered
Chosen Option : 3

Q.8 In a certain code language, 'NEBULA' is written as 'SXGNQT'. What is the code for 'OSMOLS' in that code language?

- Ans
- ☒ 1. TLRGQL
 - ☒ 2. TLRHQL
 - ☒ 3. TLRHQM
 - ☒ 4. LTRHQL

Question ID : 630680586583
Option 1 ID : 6306802295062
Option 2 ID : 6306802295063
Option 3 ID : 6306802295064
Option 4 ID : 6306802295065
Status : Answered
Chosen Option : 2

Q.9 In the following question, select the related letters from the given alternatives.

LWLY : MTMV :: FOPS : ?

- Ans
- ☒ 1. LPMA
 - ☒ 2. GLQP
 - ☒ 3. GEAA
 - ☒ 4. PGKI

Question ID : 630680586595

Option 1 ID : 6306802295110

Option 2 ID : 6306802295111

Option 3 ID : 6306802295113

Option 4 ID : 6306802295112

Status : Answered

Chosen Option : 2

Q.10 निम्नलिखित प्रत्येक समस्या में एक प्रश्न और दो कथन (I) तथा (II) हैं।

y का मान क्या है?

I. $2x + 3y + 4z = 25$

II. $4x + 7y + 8z = 62$

- Ans
- ☒ 1. यदि प्रश्न का उत्तर कथन (I) या (II) में से किसी भी एक का अकेले उपयोग करके दिया जा सकता है।
 - ☒ 2. यदि प्रश्न का उत्तर दोनों कथनों का भी एक साथ उपयोग करने पर नहीं दिया जा सकता है।
 - ☒ 3. यदि प्रश्न का उत्तर दोनों कथनों का एक साथ उपयोग करके दिया जा सकता है, लेकिन किसी एक कथन से अकेले नहीं।
 - ☒ 4. यदि प्रश्न का उत्तर किसी एक कथन का उपयोग अकेले करके दिया जा सकता है लेकिन दूसरे कथन का उपयोग अकेले करके उत्तर नहीं दिया जा सकता है।

Question ID : 630680586576

Option 1 ID : 6306802295035

Option 2 ID : 6306802295037

Option 3 ID : 6306802295036

Option 4 ID : 6306802295034

Status : Answered

Chosen Option : 2

Section : Quantitative Aptitude

Q.1 If 12 percent of a number is 1332, then what is that number which is 44 percent more than this number?

- Ans
- ☒ 1. 15994
 - ☒ 2. 15884
 - ☒ 3. 15984
 - ☒ 4. 15894

Question ID : 630680586617

Option 1 ID : 6306802295201

Option 2 ID : 6306802295200

Option 3 ID : 6306802295199

Option 4 ID : 6306802295198

Status : Answered

Chosen Option : 2

Q.2 Radii of two circles are 12 cm and 5 cm. Distance between their centres is 25 cm. What is the length of the direct common tangent?

- Ans
- ☐ 1. 32 cm
 - ☐ 2. 36 cm
 - ☐ 3. 23 cm
 - ☒ 4. 24 cm

Question ID : 630680586643

Option 1 ID : 6306802295304

Option 2 ID : 6306802295303

Option 3 ID : 6306802295305

Option 4 ID : 6306802295302

Status : Answered

Chosen Option : 3

Q.3 B1, B2 and B3 can do a work in 10, 5 and 7.5 days respectively. All three of them began the work together but B2 left 1.5 days before the completion of the work. In how many days was the work completed?

- Ans
- ☐ 1. 6 days
 - ☐ 2. 4 days
 - ☒ 3. 3 days
 - ☐ 4. 5 days

Question ID : 630680586635

Option 1 ID : 6306802295273

Option 2 ID : 6306802295270

Option 3 ID : 6306802295271

Option 4 ID : 6306802295272

Status : Answered

Chosen Option : 2

Q.4 If $t : u = 7 : 4$, then what is the value of $(7t + 4u) : (7t - 4u)$?

- Ans
- ☐ 1. 44 : 23
 - ☐ 2. 23 : 45
 - ☒ 3. 65 : 33
 - ☐ 4. 46 : 25

Question ID : 630680586634

Option 1 ID : 6306802295266

Option 2 ID : 6306802295269

Option 3 ID : 6306802295268

Option 4 ID : 6306802295267

Status : Answered

Chosen Option : 3

Q.5 The average age of 46 students is 26 years. It was observed that while calculating the average age, the age of a student was taken as 96 years instead of 69 years. What will be the correct average age?

- Ans
- ☐ 1. 24.44 years
 - ☐ 2. 27.42 years
 - ☐ 3. 26.28 years
 - ☒ 4. 25.41 years

Question ID : 630680586600
Option 1 ID : 6306802295133
Option 2 ID : 6306802295132
Option 3 ID : 6306802295131
Option 4 ID : 6306802295130
Status : Answered
Chosen Option : 2

Q.6 Two unbiased dices are thrown what is the probability of getting a sum of 10?

- Ans
- ☐ 1. 1/6
 - ☐ 2. 5/36
 - ☒ 3. 1/12
 - ☐ 4. 1/9

Question ID : 630680586609
Option 1 ID : 6306802295169
Option 2 ID : 6306802295168
Option 3 ID : 6306802295166
Option 4 ID : 6306802295167
Status : Answered
Chosen Option : 3

Q.7

What is the value of $\frac{(a+b)^2 + (a-b)^2}{4(a^2 + b^2)}$?

- Ans
- ☐ 1. $\frac{1}{4}$
 - ☒ 2. $\frac{1}{2}$
 - ☐ 3. 4
 - ☐ 4. 2

Question ID : 630680586607
Option 1 ID : 6306802295161
Option 2 ID : 6306802295159
Option 3 ID : 6306802295160
Option 4 ID : 6306802295158
Status : Answered
Chosen Option : 2

Q.8 Side of an equilateral triangle is 24 cm. What will be the radius of in circle of this equilateral triangle?

Ans ☒ 1. 3 cm

☒ 2. $4\sqrt{3}$ cm

☒ 3. $6\sqrt{3}$ cm

☒ 4. 4 cm

Question ID : 630680586628

Option 1 ID : 6306802295243

Option 2 ID : 6306802295245

Option 3 ID : 6306802295244

Option 4 ID : 6306802295242

Status : Answered

Chosen Option : 2

Q.9 The difference between cost price and selling price of a chair is Rs. 180. If profit percentage is 12 percent, then what is the selling price?

Ans ☒ 1. Rs. 1880

☒ 2. Rs. 1740

☒ 3. Rs. 1820

☒ 4. Rs. 1680

Question ID : 630680586618

Option 1 ID : 6306802295205

Option 2 ID : 6306802295204

Option 3 ID : 6306802295202

Option 4 ID : 6306802295203

Status : Answered

Chosen Option : 2

Q.10 The sum of the length, breadth and height of a cuboid is 27 cm. If its diagonal is 18 cm long, then what is the total surface area of the cuboid?

Ans ☒ 1. 405 cm^2

☒ 2. 482 cm^2

☒ 3. 372 cm^2

☒ 4. 304 cm^2

Question ID : 630680586626

Option 1 ID : 6306802295237

Option 2 ID : 6306802295236

Option 3 ID : 6306802295235

Option 4 ID : 6306802295234

Status : Answered

Chosen Option : 2

Q.11 A car left 2 hours later than the scheduled time but in order to reach its destination 120 km away in time, it had to increase its usual speed by 5 km/hr. What is the usual speed of the car?

- Ans ☒ 1. 15 km/hr
☐ 2. 30 km/hr
☐ 3. 25 km/hr
☐ 4. 20 km/hr

Question ID : 630680586606
Option 1 ID : 6306802295156
Option 2 ID : 6306802295157
Option 3 ID : 6306802295155
Option 4 ID : 6306802295154
Status : Answered
Chosen Option : 3

Q.12 If $\cot \theta = \frac{3}{4}$, then what is the value of $\sin \theta + \tan \theta$?

- Ans ☐ 1. 20/27
☐ 2. 3/10
☒ 3. 27/20
☐ 4. 9/10

Question ID : 630680586614
Option 1 ID : 6306802295187
Option 2 ID : 6306802295189
Option 3 ID : 6306802295186
Option 4 ID : 6306802295188
Status : Answered
Chosen Option : 2

Q.13 The length of a cuboid is four times of its breadth and the height of cuboid is five times of its breadth. If the breadth of the cuboid is 6 cm, then what is the total surface area of cuboid?

- Ans ☐ 1. 2246 cm²
☐ 2. 2478 cm²
☐ 3. 1896 cm²
☒ 4. 2088 cm²

Question ID : 630680586641
Option 1 ID : 6306802295296
Option 2 ID : 6306802295294
Option 3 ID : 6306802295297
Option 4 ID : 6306802295295
Status : Answered
Chosen Option : 3

Q.14

If $x^2 + \frac{1}{x^2} = 15$, then what is the value of $\frac{x^2 - 1}{x}$? ($x > 0$)

Ans

☐ 1. $4\sqrt{13}$

☐ 2. $3\sqrt{2}$

☒ 3. $\sqrt{13}$

☐ 4. $\sqrt{15}$

Question ID : 630680586608

Option 1 ID : 6306802295163

Option 2 ID : 6306802295165

Option 3 ID : 6306802295162

Option 4 ID : 6306802295164

Status : Answered

Chosen Option : 2

Q.15 The compound interest on a sum for 2 years at the rate of 24 percent per annum (compounded annually) is Rs. 4300.8. What is the sum?

Ans

☐ 1. Rs. 7500

☒ 2. Rs. 8000

☐ 3. Rs. 7000

☐ 4. Rs. 8200

Question ID : 630680586631

Option 1 ID : 6306802295256

Option 2 ID : 6306802295255

Option 3 ID : 6306802295254

Option 4 ID : 6306802295257

Status : Answered

Chosen Option : 2

Section : General Knowledge

Q.1 Which of the following vitamin deficiency causes Scurvy disease?

Ans

☐ 1. Vitamin D

☒ 2. Vitamin C

☐ 3. Vitamin A

☐ 4. Vitamin K

Question ID : 630680586536

Option 1 ID : 6306802294876

Option 2 ID : 6306802294875

Option 3 ID : 6306802294874

Option 4 ID : 6306802294877

Status : Answered

Chosen Option : 2

Q.2 भारतीय संविधान का निम्नलिखित में से कौन सा अनुच्छेद कुछ दशाओं में गिरफ्तारी और हनिरोध से संरक्षण प्रदान करता है?

- Ans
- ☒ 1. अनुच्छेद 21
 - ☒ 2. अनुच्छेद 15
 - ☒ 3. अनुच्छेद 22
 - ☒ 4. अनुच्छेद 18

Question ID : 630680586563
Option 1 ID : 6306802294984
Option 2 ID : 6306802294982
Option 3 ID : 6306802294985
Option 4 ID : 6306802294983

Status : Answered
Chosen Option : 3

Q.3 प्लासी के युद्ध के बारे में निम्नलिखित में से कौन सा कथन सही है?

- I. रॉबर्ट क्लाइव ने प्लासी के मैदान में सिराजुद्दौला के खिलाफ कंपनी की सेना का नेतृत्व किया।
II. प्लासी की जंग इसलिए महत्वपूर्ण मानी जाती है क्योंकि भारत में यह कंपनी की पहली बड़ी जीत थी।

- Ans
- ☒ 1. केवल I
 - ☒ 2. I तथा II दोनों
 - ☒ 3. ना ही I ना ही II
 - ☒ 4. केवल II

Question ID : 630680586559
Option 1 ID : 6306802294966
Option 2 ID : 6306802294968
Option 3 ID : 6306802294969
Option 4 ID : 6306802294967

Status : Answered
Chosen Option : 2

Q.4 घाघरा नदी _____ हिमनद से निकलती है।

- Ans
- ☒ 1. मार्चोई
 - ☒ 2. बियाफो
 - ☒ 3. मापचाचुंगो
 - ☒ 4. ज़ेमु

Question ID : 630680586545
Option 1 ID : 6306802294911
Option 2 ID : 6306802294913
Option 3 ID : 6306802294910
Option 4 ID : 6306802294912

Status : Answered
Chosen Option : 1

Q.5 तीसरा अंग्रेज़-मराठा युद्ध कब हुआ था?

Ans ☒ 1. 1817-19

☐ 2. 1782-83

☐ 3. 1803-05

☐ 4. 1825-27

Question ID : 630680586542

Option 1 ID : 6306802294900

Option 2 ID : 6306802294898

Option 3 ID : 6306802294899

Option 4 ID : 6306802294901

Status : Answered

Chosen Option : 2

Q.6 गंडक नदी दो धाराओं कालीगंडक और _____ के मिलने से बनती है।

Ans ☐ 1. पेनगंगा

☒ 2. त्रिशूलगंगा

☐ 3. शारदा

☐ 4. वैनगंगा

Question ID : 630680586561

Option 1 ID : 6306802294976

Option 2 ID : 6306802294974

Option 3 ID : 6306802294977

Option 4 ID : 6306802294975

Status : Answered

Chosen Option : 2

Q.7 Which country won the Asia Cup 2023 title in cricket?

Ans ☐ 1. Bangla desh

☐ 2. Sri Lanka

☒ 3. India

☐ 4. Pakistan

Question ID : 630680586553

Option 1 ID : 6306802294944

Option 2 ID : 6306802294942

Option 3 ID : 6306802294943

Option 4 ID : 6306802294945

Status : Answered

Chosen Option : 3

Q.8 Which of the following IIT incubated firms has developed 'BharOS' India's indigenous mobile operating system that provides security and privacy to users?

Ans ☒ 1. IIT Madras

☐ 2. IIT Delhi

☐ 3. IIT Mumbai

☐ 4. IIT Kanpur

Question ID : 630680586524

Option 1 ID : 6306802294829

Option 2 ID : 6306802294827

Option 3 ID : 6306802294826

Option 4 ID : 6306802294828

Status : Answered

Chosen Option : 1

Q.9 निम्नलिखित में से किसने गुलामगिरी नामक पुस्तक लिखी?

Ans ☐ 1. स्वामी दयानंद सरस्वती

☒ 2. ज्योतिराव फुले

☐ 3. ईश्वर चंद्र विद्यासागर

☐ 4. बी आर अम्बेडकर

Question ID : 630680586558

Option 1 ID : 6306802294964

Option 2 ID : 6306802294962

Option 3 ID : 6306802294963

Option 4 ID : 6306802294965

Status : Answered

Chosen Option : 2

Q.10 क्लोरोफाइसी के सदस्यों को प्रायः _____ कहते हैं।

Ans ☐ 1. भूरा शैवाल

☐ 2. लाल शैवाल

☐ 3. नीले शैवाल

☒ 4. हरा शैवाल

Question ID : 630680586567

Option 1 ID : 6306802294999

Option 2 ID : 6306802295000

Option 3 ID : 6306802295001

Option 4 ID : 6306802294998

Status : Answered

Chosen Option : 4

Q.11 राष्ट्रीय नमूना सर्वेक्षण कार्यालय (एनएसएसओ) द्वारा प्रकाशित आवधिक श्रम बल सर्वेक्षण (पीएलएफएस) वार्षिक रिपोर्ट के बारे में निम्नलिखित में से कौन सा कथन सही है?

- I. ग्रामीण और शहरी दोनों क्षेत्रों को कवर करने वाली रिपोर्ट सामान्य स्थिति (पीएस + एसएस) और वर्तमान साप्ताहिक स्थिति (सीडब्ल्यूएस) दोनों में रोजगार और बेरोजगारी के सभी महत्वपूर्ण मापदंडों का अनुमान देती है।
II. एनएसएसओ द्वारा जुलाई 2022-जून 2023 के दौरान किए गए आवधिक श्रम बल सर्वेक्षण के आधार पर छठी वार्षिक रिपोर्ट लाई जा रही है।

- Ans ☒ 1. ना ही I ना ही II
☒ 2. केवल I
☒ 3. केवल II
☒ 4. I तथा II दोनों

Question ID : 630680586556
Option 1 ID : 6306802294957
Option 2 ID : 6306802294954
Option 3 ID : 6306802294955
Option 4 ID : 6306802294956
Status : Answered
Chosen Option : 2

Q.12 निम्नलिखित में से कौन सा संविधान संशोधन करके यह व्यवस्था की गई कि मंत्रिपरिषद के सदस्यों की संख्या लोक सभा के कुल सदस्य संख्या के 15 प्रतिशत से अधिक न होगी?

- Ans ☒ 1. 102वाँ संशोधन अधिनियम
☒ 2. 91वाँ संशोधन अधिनियम
☒ 3. 97वाँ संशोधन अधिनियम
☒ 4. 74वाँ संशोधन अधिनियम

Question ID : 630680586564
Option 1 ID : 6306802294989
Option 2 ID : 6306802294987
Option 3 ID : 6306802294988
Option 4 ID : 6306802294986
Status : Answered
Chosen Option : 1

Q.13 भारत के सर्वोच्च न्यायालय के मौलिक क्षेत्राधिकार के बारे में निम्नलिखित में से कौन सा कथन सही है?

- I. मौलिक क्षेत्राधिकार का अर्थ है कि कुछ मुकदमों की सुनवाई सीधे सर्वोच्च न्यायालय कर सकता है।
II. सर्वोच्च न्यायालय का मौलिक क्षेत्राधिकार उसे संघीय मामलों से संबंधित सभी विवादों में एक अंपायर या निर्याणक की भूमिका देता है।

- Ans ☒ 1. केवल II
☒ 2. I तथा II दोनों
☒ 3. ना तो I ना ही II
☒ 4. केवल I

Question ID : 630680586550
Option 1 ID : 6306802294931
Option 2 ID : 6306802294932
Option 3 ID : 6306802294933
Option 4 ID : 6306802294930
Status : Answered
Chosen Option : 1

Q.14 According to NITI Aayog's discussion paper 'Multidimensional Poverty in India since 2005-06', which of the following Indian states recorded the largest decline in the number of MPI poor between 2013-14 and 2022-23?

- Ans
- ☐ 1. Tamil Nadu
 - ☒ 2. Uttar Pradesh
 - ☐ 3. Assam
 - ☐ 4. Maharashtra

Question ID : 630680586525
Option 1 ID : 6306802294832
Option 2 ID : 6306802294830
Option 3 ID : 6306802294833
Option 4 ID : 6306802294831
Status : Answered
Chosen Option : 2

Q.15 According to the 2011 Census of India, which of the following states has the lowest female literacy rate?

- Ans
- ☐ 1. Goa
 - ☐ 2. Assam
 - ☒ 3. Bihar
 - ☐ 4. Sikkim

Question ID : 630680586562
Option 1 ID : 6306802294980
Option 2 ID : 6306802294981
Option 3 ID : 6306802294979
Option 4 ID : 6306802294978
Status : Answered
Chosen Option : 3

