

Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	07/06/2024
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2024 Electrical Paper I

Section : **General Intelligence and Reasoning**

Q.1 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $10 \div 8 \times 4 - 6 + 2 = ?$

- Ans 1. 24
 2. 26
 3. 28
 4. 22

Question ID : 630680376400
Option 1 ID : 6306801466668
Option 2 ID : 6306801466669
Option 3 ID : 6306801466667
Option 4 ID : 6306801466670
Status : Answered
Chosen Option : 1

Q.2 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.
1. Cockroach
2. Owl
3. Ant
4. Horse
5. Fox

- Ans 1. 3, 2, 5, 4, 1
 2. 3, 1, 2, 5, 4
 3. 3, 4, 1, 2, 5
 4. 3, 5, 4, 1, 2

Question ID : 630680565829
Option 1 ID : 6306802212265
Option 2 ID : 6306802212266
Option 3 ID : 6306802212264
Option 4 ID : 6306802212267
Status : Answered
Chosen Option : 2

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Q.3 In a certain code language, 'LVCO' is coded as '12-22-3-15' and 'GIPN' is coded as '7-9-16-14'. What is the code for 'ZAPG' in the given language?

- Ans** 1. 26-1-16-7
 2. 24-5-14-8
 3. 22-5-15-6
 4. 22-2-11-5

Question ID : 630680375913
Option 1 ID : 6306801464724
Option 2 ID : 6306801464725
Option 3 ID : 6306801464723
Option 4 ID : 6306801464726
Status : Answered
Chosen Option : 1

Q.4 The position(s) of how many letters will remain unchanged if each of the letters in the word HARDEST is arranged in the English alphabetical order?

- Ans** 1. Two
 2. Three
 3. Zero
 4. One

Question ID : 630680396636
Option 1 ID : 6306801546640
Option 2 ID : 6306801546641
Option 3 ID : 6306801546642
Option 4 ID : 6306801546643
Status : Answered
Chosen Option : 4

Q.5 What should come in place of the question mark (?) in the given series?
18, 30, 42, 54, 66, ?

- Ans** 1. 73
 2. 70
 3. 82
 4. 78

Question ID : 630680377843
Option 1 ID : 6306801472432
Option 2 ID : 6306801472431
Option 3 ID : 6306801472434
Option 4 ID : 6306801472433
Status : Answered
Chosen Option : 4



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Q.6 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

1.

2.

3.

4.

Question ID : **630680524481**

Option 1 ID : **6306802050023**

Option 2 ID : **6306802050025**

Option 3 ID : **6306802050026**

Option 4 ID : **6306802050024**

Status : **Answered**

Chosen Option : **2**



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Q.7 In a certain code language, 'CASE' is coded as '8426' and 'SLIP' is coded as '9275'.
What is the code for 'S' in the given language?

- Ans 1. 9
 2. 8
 3. 6
 4. 2

Question ID : 630680376552

Option 1 ID : 6306801467276

Option 2 ID : 6306801467275

Option 3 ID : 6306801467277

Option 4 ID : 6306801467278

Status : Answered

Chosen Option : 4



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Q.8 Select the correct mirror image of the given figure when the mirror is placed at OG as shown below.

Ans

1.

2.

3.

4.

Question ID : **630680462562**

Option 1 ID : **6306801806451**

Option 2 ID : **6306801806452**

Option 3 ID : **6306801806453**

Option 4 ID : **6306801806454**

Status : **Answered**

Chosen Option : **4**



Q.9 This question consists of a pair of words which have a certain relationship to each other. Select the pair which has the same relationship.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Brazil : Real

- Ans 1. Kenya : Yen
 2. Malaysia : Ringgit
 3. Cuba : Euro
 4. Indonesia : Rial

Question ID : 630680556090
Option 1 ID : 6306802173738
Option 2 ID : 6306802173739
Option 3 ID : 6306802173736
Option 4 ID : 6306802173737
Status : Answered
Chosen Option : 3

Q.10 A, B, C, D, E, F, and G are sitting around a circular table, facing away from the centre (not necessarily in the same order). Only 3 people sit between B and D when counted from the left of D. B sits second to the left of E. G sits to the immediate right of C. A is not an immediate neighbour of D.
Who is sitting to the immediate right of E?

- Ans 1. F
 2. A
 3. D
 4. B

Question ID : 630680376592
Option 1 ID : 6306801467438
Option 2 ID : 6306801467435
Option 3 ID : 6306801467437
Option 4 ID : 6306801467436
Status : Answered
Chosen Option : 1

Q.11 Manoj starts from his home and drives 4 km towards the north. He then takes a left turn, drives 5 km, turns right, and drives 9 km. He then takes a left turn and drives 3 km and turns left then drives 5 km to reach his office.
In which direction is the office with respect to his home?
(All turns are 90° turns only, unless specified.)

- Ans 1. North-east
 2. South-east
 3. North-west
 4. West

Question ID : 630680376874
Option 1 ID : 6306801468561
Option 2 ID : 6306801468562
Option 3 ID : 6306801468559
Option 4 ID : 6306801468560
Status : Answered
Chosen Option : 3



Q.12 Select the triad in which the numbers are related to each other in the same way as are the numbers of the given triads.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(12, 9, 96)
(14, 7, 84)

- Ans 1. (17, 12, 170)
 2. (15, 8, 130)
 3. (18, 11, 180)
 4. (10, 12, 120)

Question ID : 630680392055
Option 1 ID : 6306801528595
Option 2 ID : 6306801528597
Option 3 ID : 6306801528594
Option 4 ID : 6306801528596
Status : Not Answered
Chosen Option : --

Q.13 What should come in place of the question mark (?) in the given series?
11, 18, 25, 32, 39, ?

- Ans 1. 43
 2. 45
 3. 46
 4. 44

Question ID : 630680376728
Option 1 ID : 6306801467975
Option 2 ID : 6306801467977
Option 3 ID : 6306801467978
Option 4 ID : 6306801467976
Status : Answered
Chosen Option : 3

Q.14 In a certain code language, 'GROW' is coded as '5397' and 'WILD' is coded as '6942'.
What is the code for 'W' in the given code language?

- Ans 1. 2
 2. 7
 3. 9
 4. 6

Question ID : 630680377194
Option 1 ID : 6306801469841
Option 2 ID : 6306801469839
Option 3 ID : 6306801469842
Option 4 ID : 6306801469840
Status : Answered
Chosen Option : 3

Q.15 Which two numbers should be interchanged to make the given equation correct?
 $(165 \div 3) + (135 \div 5) - 45 + 33 = 66$
(Note: Interchange should be done of entire number and not individual digits of a given number)

- Ans
- 1. 45 and 33
 - 2. 165 and 135
 - 3. 33 and 5
 - 4. 45 and 3

Question ID : 630680378793
Option 1 ID : 6306801476219
Option 2 ID : 6306801476220
Option 3 ID : 6306801476221
Option 4 ID : 6306801476222
Status : Answered
Chosen Option : 2

Q.16 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- All parrots are rats.
- Some rats are lambs.
- No lamb is a horse.

Conclusions:

- (I) All rats are horses.
- (II) Some lambs are parrots.

- Ans
- 1. Neither conclusion (I) nor (II) follows
 - 2. Only conclusion (II) follows
 - 3. Both conclusions (I) and (II) follow
 - 4. Only conclusion (I) follows

Question ID : 630680376883
Option 1 ID : 6306801468597
Option 2 ID : 6306801468596
Option 3 ID : 6306801468598
Option 4 ID : 6306801468595
Status : Answered
Chosen Option : 2

Q.17 In a certain code language, 'HOPE' is coded as '7395' and 'OURS' is coded as '6582'.
What is the code for 'O' in the given code language?

- Ans
- 1. 5
 - 2. 7
 - 3. 6
 - 4. 9

Question ID : 630680377191
Option 1 ID : 6306801469828
Option 2 ID : 6306801469827
Option 3 ID : 6306801469829
Option 4 ID : 6306801469830
Status : Answered
Chosen Option : 1



Q.18 Sandeep starts walking towards the north from a point and walks 30 m. He turns to the right and walks 30 m. He turns to the left and walks 20 m. He turns to the left and walks 30 m. Finally, he turns to the left and walks 30 m. How far is he now from the starting point? (All turns are 90 degrees turns only unless specified.)

- Ans
- 1. 15 m
 - 2. 10 m
 - 3. 20 m
 - 4. 30 m

Question ID : 630680383314
Option 1 ID : 6306801494158
Option 2 ID : 6306801494156
Option 3 ID : 6306801494157
Option 4 ID : 6306801494155
Status : Answered
Chosen Option : 3

Q.19 EHDL is related to ILZH in a certain way based on the English alphabetical order. In the same way, TFRA is related to XJNW. To which of the following is JUIP related, following the same logic?

- Ans
- 1. MYDL
 - 2. NZEK
 - 3. NYEL
 - 4. MZDK

Question ID : 630680378985
Option 1 ID : 6306801476988
Option 2 ID : 6306801476990
Option 3 ID : 6306801476989
Option 4 ID : 6306801476987
Status : Answered
Chosen Option : 3

Q.20 DGFB is related to EFGA in a certain way based on the English alphabetical order. In the same way, EGHC is related to FFIB. To which of the following is FDHB related, following the same logic?

- Ans
- 1. GCIA
 - 2. GCAS
 - 3. GCER
 - 4. GCAO

Question ID : 630680378691
Option 1 ID : 6306801475812
Option 2 ID : 6306801475813
Option 3 ID : 6306801475814
Option 4 ID : 6306801475811
Status : Answered
Chosen Option : 1



Q.21 The position(s) of how many letters will remain unchanged if each of the letters in the word **ABSOLUTE** is arranged in the reverse of the English alphabetical order?

- Ans
- 1. One
 - 2. Two
 - 3. Three
 - 4. Four

Question ID : **630680450081**
Option 1 ID : **6306801757482**
Option 2 ID : **6306801757483**
Option 3 ID : **6306801757484**
Option 4 ID : **6306801757485**
Status : **Answered**
Chosen Option : **3**

Q.22 Six babies Ria, Sia, Tia, Urja, Vani and Winnie are born one after the other but not necessarily in the same order. All of them were born in different cities. Only two babies were born before the one who was born in Raipur. Only one baby was born between Sia, who was born in Delhi and the baby born in Raipur. Tia was born before Urja and just after the baby born in Haridwar. Tia was not born in Raipur. Ria was born in Bhopal and just before Vani. Tia is born immediately before the baby born in Ballia. Winnie was not born in Pune. Who was born just after Sia and in which city?

- Ans
- 1. Vani, Raipur
 - 2. Tia, Pune
 - 3. Urja, Raipur
 - 4. Ria, Bhopal

Question ID : **630680521121**
Option 1 ID : **6306802036911**
Option 2 ID : **6306802036909**
Option 3 ID : **6306802036910**
Option 4 ID : **6306802036912**
Status : **Not Answered**
Chosen Option : **--**

Q.23 'AC 2' is related to 'DF 8' in a certain way based on the English alphabetical and numerical order. In the same way, 'IK 5' is related to 'LN 125'. To which of the following is 'PR 7' related following the same logic?

- Ans
- 1. RU 343
 - 2. SU 343
 - 3. TU 216
 - 4. SU 216

Question ID : **630680377766**
Option 1 ID : **6306801472124**
Option 2 ID : **6306801472123**
Option 3 ID : **6306801472125**
Option 4 ID : **6306801472126**
Status : **Not Answered**
Chosen Option : **--**



Q.24 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Greece : Athens

- Ans 1. Norway : Muscat
 2. Ireland : Dublin
 3. Indonesia : Tehran
 4. Jordan : Tokyo

Question ID : 630680565339

Option 1 ID : 6306802210333

Option 2 ID : 6306802210331

Option 3 ID : 6306802210330

Option 4 ID : 6306802210332

Status : Answered

Chosen Option : 1

Q.25 In a certain code language,
'A + B' means 'A is the wife of B',
'A - B' means 'A is the father of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the mother of B'.
How is Q related to Y if 'Q + K - T × D ÷ Y'?

- Ans 1. Mother's mother
 2. Father's father
 3. Mother's brother
 4. Father

Question ID : 630680377673

Option 1 ID : 6306801471751

Option 2 ID : 6306801471752

Option 3 ID : 6306801471753

Option 4 ID : 6306801471754

Status : Answered

Chosen Option : 1



Q.26 Select the figure that is embedded as a part of the main figure (X).
(Rotation is NOT allowed.)

Ans

1.

X 2.

X 3.

X 4.

Question ID : **630680525286**

Option 1 ID : **6306802053230**

Option 2 ID : **6306802053229**

Option 3 ID : **6306802053228**

Option 4 ID : **6306802053231**

Status : **Answered**

Chosen Option : 1



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Q.27 Select the option in which the numbers share the same relationship as that shared by the given pairs of numbers.

100 : 90

70 : 60

(NOTE: Operations should be performed on the whole number, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.)

Ans 1. 90 : 70

2. 130 : 110

3. 150 : 145

4. 130 : 120

Question ID : 630680387170

Option 1 ID : 6306801509375

Option 2 ID : 6306801509374

Option 3 ID : 6306801509376

Option 4 ID : 6306801509377

Status : Not Answered

Chosen Option : --

Q.28 DCHE is related to HFPJ in a certain way based on the English alphabetical order. In the same way, CABF is related to FBDL. To which of the following is FIHE related, following the same logic?

Ans 1. LRPJ

2. PLRJ

3. LPRG

4. PRLJ

Question ID : 630680387610

Option 1 ID : 6306801511107

Option 2 ID : 6306801511106

Option 3 ID : 6306801511109

Option 4 ID : 6306801511108

Status : Answered

Chosen Option : 3

Q.29 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
MOK, LNJ, KMI, JLH, ?

Ans 1. HPJ

2. IKG

3. HJG

4. IKH

Question ID : 630680394865

Option 1 ID : 6306801539744

Option 2 ID : 6306801539747

Option 3 ID : 6306801539746

Option 4 ID : 6306801539745

Status : Answered

Chosen Option : 2



Q.30 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
LSC, NVG, PYK, RBO, ?

- Ans
- 1. TES
 - 2. WHI
 - 3. UGT
 - 4. QDU

Question ID : 630680382495
Option 1 ID : 6306801490895
Option 2 ID : 6306801490898
Option 3 ID : 6306801490896
Option 4 ID : 6306801490897
Status : Answered
Chosen Option : 1

Q.31 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
FIK, GJL, HKM, ILN, ?

- Ans
- 1. OJM
 - 2. JMO
 - 3. JOM
 - 4. OMJ

Question ID : 630680385048
Option 1 ID : 6306801501079
Option 2 ID : 6306801501081
Option 3 ID : 6306801501080
Option 4 ID : 6306801501078
Status : Answered
Chosen Option : 2

Q.32 14 is related to 54 following a certain logic. Following the same logic, 9 is related to 24. To which of the following is 21 related following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 96
 - 2. 90
 - 3. 89
 - 4. 99

Question ID : 630680451927
Option 1 ID : 6306801764786
Option 2 ID : 6306801764787
Option 3 ID : 6306801764788
Option 4 ID : 6306801764789
Status : Not Answered
Chosen Option : --



Q.33 What should come in place of ? in the given series?
6, 30, 174, ?, 6222, 37326

- Ans
- 1. 1008
 - 2. 1058
 - 3. 1038
 - 4. 1098

Question ID : 630680388327
Option 1 ID : 6306801513826
Option 2 ID : 6306801513828
Option 3 ID : 6306801513827
Option 4 ID : 6306801513829
Status : Not Answered
Chosen Option : --

Q.34 What will come in place of the question mark (?) in the following equation if '+' and '×' are interchanged and '-' and '÷',interchanged ?
 $4 + 11 \times 48 - 6 \div 3 = ?$

- Ans
- 1. 53
 - 2. 51
 - 3. 46
 - 4. 49

Question ID : 630680376479
Option 1 ID : 6306801466986
Option 2 ID : 6306801466983
Option 3 ID : 6306801466985
Option 4 ID : 6306801466984
Status : Answered
Chosen Option : 4

Q.35 18 is related to 162 following a certain logic. Following the same logic, 16 is related to 144. To which of the following is 25 related to following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 215
 - 2. 225
 - 3. 235
 - 4. 245

Question ID : 630680396915
Option 1 ID : 6306801547728
Option 2 ID : 6306801547729
Option 3 ID : 6306801547730
Option 4 ID : 6306801547731
Status : Not Answered
Chosen Option : --



Q.36 2 is related to 26 following a certain logic. Following the same logic, 4 is related to 52.
To which of the following is 7 related following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- 1. 25
 - 2. 27
 - 3. 72
 - 4. 91

Question ID : 630680395518
Option 1 ID : 6306801542236
Option 2 ID : 6306801542237
Option 3 ID : 6306801542238
Option 4 ID : 6306801542239
Status : Not Answered
Chosen Option : --

Q.37 PTOS is related to NRMQ in a certain way based on the English alphabetical order. In the same way, JNIM is related to HLGK. To which of the following is MQLP related, following the same logic?

- Ans
- 1. KOJN
 - 2. OKNJ
 - 3. KONJ
 - 4. OKJN

Question ID : 630680376717
Option 1 ID : 6306801467932
Option 2 ID : 6306801467934
Option 3 ID : 6306801467933
Option 4 ID : 6306801467931
Status : Answered
Chosen Option : 4



Q.38 Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

Ans

1.

2.

3.

4.

Question ID : 630680422221

Option 1 ID : 6306801647320

Option 2 ID : 6306801647321

Option 3 ID : 6306801647322

Option 4 ID : 6306801647323

Status : Answered

Chosen Option : 2

Q.39 E, F, G, H, P, Q, and R, are sitting around a circular table facing the centre (not necessarily in the same order) . Only three people sit between P and G when counted from the right of P. Only F sits between R and P when counted from the left of P. Only two people sit between R and E when counted from the left of R. H is NOT an immediate neighbour of G.
How many people sit between F and Q when counted from the left of F?

Ans 1. Two

2. Three

3. One

4. Four

Question ID : 630680376945

Option 1 ID : 6306801468844

Option 2 ID : 6306801468845

Option 3 ID : 6306801468843

Option 4 ID : 6306801468846

Status : Not Answered

Chosen Option : --



Q.40

- Ans
- 1. 9
 - 2. 8
 - 3. 10
 - 4. 7

Question ID : 630680524409
Option 1 ID : 6306802049737
Option 2 ID : 6306802049736
Option 3 ID : 6306802049738
Option 4 ID : 6306802049735
Status : Answered
Chosen Option : 4

Q.41 In a certain code language,
'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the husband of B'.
How is H related to E if 'A - B ÷ H + C × D + E'?

- Ans
- 1. Mother
 - 2. Mother's mother
 - 3. Daughter
 - 4. Mother's sister

Question ID : 630680378719
Option 1 ID : 6306801475923
Option 2 ID : 6306801475924
Option 3 ID : 6306801475925
Option 4 ID : 6306801475926
Status : Not Answered
Chosen Option : --

Q.42 If A means +, B means -, C means × and D means ÷, then what will come in place of the question mark (?) in the following equation?

21 D 7 C 4 A 10 B 13 = ?

- Ans
- 1. 11
 - 2. 9
 - 3. 10
 - 4. 8

Question ID : 630680388272
Option 1 ID : 6306801513613
Option 2 ID : 6306801513611
Option 3 ID : 6306801513612
Option 4 ID : 6306801513610
Status : Not Answered
Chosen Option : --

Q.43 Arrange the following words in which they appear in an English dictionary and select the correct option.

1. Helical
2. Helium
3. Heighten
4. Hellenic
5. Heiress

Ans 1. 41352

2. 35124

3. 43152

4. 53412

Question ID : 630680398745

Option 1 ID : 6306801554985

Option 2 ID : 6306801554984

Option 3 ID : 6306801554983

Option 4 ID : 6306801554982

Status : Answered

Chosen Option : 2

Q.44

Ans 1. DUE

2. POE

3. DOE

4. CDE

Question ID : 630680378697

Option 1 ID : 6306801475835

Option 2 ID : 6306801475837

Option 3 ID : 6306801475836

Option 4 ID : 6306801475838

Status : Answered

Chosen Option : 3

Q.45 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements: All girls are honest. Priya is honest.

Conclusion 1: Priya is a girl.

Conclusion 2: All honest people are girls.

Ans 1. None of the conclusions follow

2. Only conclusion (1) follows

3. Both conclusion (1) and conclusion (2) follow

4. Only conclusion (2) follows

Question ID : 630680381547

Option 1 ID : 6306801487122

Option 2 ID : 6306801487119

Option 3 ID : 6306801487121

Option 4 ID : 6306801487120

Status : Answered

Chosen Option : 2



Q.46 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Ans 1.

2.

3.

4.

Question ID : 630680524861

Option 1 ID : 6306802051543

Option 2 ID : 6306802051546

Option 3 ID : 6306802051544

Option 4 ID : 6306802051545

Status : **Answered**

Chosen Option : 1



Q.47 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Question ID : 630680524804

Option 1 ID : 6306802051318

Option 2 ID : 6306802051316

Option 3 ID : 6306802051315

Option 4 ID : 6306802051317

Status : Answered

Chosen Option : 4

Q.48 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
UTW, SRU, QPS, ONQ, MLO, ?

Ans ✗ 1. LKN

✗ 2. KJN

✗ 3. LJM

✓ 4. KJM

Question ID : 630680395303

Option 1 ID : 6306801541418

Option 2 ID : 6306801541419

Option 3 ID : 6306801541416

Option 4 ID : 6306801541417

Status : Answered

Chosen Option : 4



Q.49 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(9, 100, 90)
(11, 120, 110)

- Ans
- 1. (14, 164, 154)
 - 2. (13, 260, 130)
 - 3. (15, 130, 120)
 - 4. (12, 130, 120)

Question ID : 630680375856
Option 1 ID : 6306801464496
Option 2 ID : 6306801464497
Option 3 ID : 6306801464495
Option 4 ID : 6306801464498
Status : Not Answered
Chosen Option : --

Q.50 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
LOR, PSV, TWZ, XAD, BEH, ?

- Ans
- 1. EIM
 - 2. GKL
 - 3. FJM
 - 4. FIL

Question ID : 630680378626
Option 1 ID : 6306801475554
Option 2 ID : 6306801475552
Option 3 ID : 6306801475553
Option 4 ID : 6306801475551
Status : Not Answered
Chosen Option : --

Section : General Awareness

Q.1 Which of the following is the domestic first-class cricket championship in India?

- Ans
- 1. Ranji Trophy
 - 2. Durand Cup
 - 3. Santosh Trophy
 - 4. Thomas Cup

Question ID : 630680510857
Option 1 ID : 6306801996558
Option 2 ID : 6306801996561
Option 3 ID : 6306801996559
Option 4 ID : 6306801996560
Status : Answered
Chosen Option : 1



Q.2 Which of the following is the structural and functional unit of an organism?

- Ans** 1. Mitochondria
 2. ATP
 3. Nucleus
 4. Cell

Question ID : 630680564558
Option 1 ID : 6306802207168
Option 2 ID : 6306802207170
Option 3 ID : 6306802207169
Option 4 ID : 6306802207167
Status : Answered
Chosen Option : 2

Q.3 According to Census of India 2011, which is the second most populated state?

- Ans** 1. Bihar
 2. Tamil Nadu
 3. Maharashtra
 4. Rajasthan

Question ID : 630680477716
Option 1 ID : 6306801866012
Option 2 ID : 6306801866013
Option 3 ID : 6306801866014
Option 4 ID : 6306801866015
Status : Answered
Chosen Option : 3

Q.4 Who among the following eminent musicians is a famous tabla player?

- Ans** 1. Ustad Bade Gulam Ali Khan
 2. Ustad Moinuddin Khan
 3. Ustad Abdul Rashid Khan
 4. Ustad Zakir Hussain

Question ID : 630680701404
Option 1 ID : 6306802747556
Option 2 ID : 6306802747553
Option 3 ID : 6306802747554
Option 4 ID : 6306802747555
Status : Answered
Chosen Option : 4

Q.5 In which of the following countries was the revolutionary Ghadar Party formed?

- Ans** 1. Germany
 2. England
 3. The US
 4. Switzerland

Question ID : 630680572366
Option 1 ID : 6306802238304
Option 2 ID : 6306802238305
Option 3 ID : 6306802238306
Option 4 ID : 6306802238307
Status : Not Answered
Chosen Option : --



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Q.6 It is hot outside. It is cloudy and raining most of the time. It is the month of June.
Which season is it?

- Ans
- 1. Winter
 - 2. Summer
 - 3. Monsoon
 - 4. Spring

Question ID : 630680546819
Option 1 ID : 6306802137842
Option 2 ID : 6306802137843
Option 3 ID : 6306802137844
Option 4 ID : 6306802137845
Status : Answered
Chosen Option : 4

Q.7 Which Article of the Constitution of India mentions about enlargement of the jurisdiction of the Supreme Court?

- Ans
- 1. Article 138
 - 2. Article 140
 - 3. Article 142
 - 4. Article 144

Question ID : 630680497526
Option 1 ID : 6306801943828
Option 2 ID : 6306801943829
Option 3 ID : 6306801943830
Option 4 ID : 6306801943831
Status : Answered
Chosen Option : 3

Q.8 Who said, "Literacy in itself is not Education"?

- Ans
- 1. BR Ambedkar
 - 2. Jawaharlal Nehru
 - 3. Mahatma Gandhi
 - 4. Bal Gangadhar Tilak

Question ID : 630680511591
Option 1 ID : 6306801999487
Option 2 ID : 6306801999489
Option 3 ID : 6306801999486
Option 4 ID : 6306801999488
Status : Answered
Chosen Option : 1

Q.9 Who was sworn in as the Governor of Andhra Pradesh on 24 February 2023?

- Ans
- 1. Acharya Dev Vrat
 - 2. S Abdul Nazeer
 - 3. Gulab Chand Kataria
 - 4. Pratap Shukla

Question ID : 630680804274
Option 1 ID : 6306803150829
Option 2 ID : 6306803150827
Option 3 ID : 6306803150828
Option 4 ID : 6306803150830
Status : Not Answered
Chosen Option : --



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Q.10 Which of the following is a popular email client software?

- Ans**
- 1. Microsoft Word
 - 2. Adobe Photoshop
 - 3. Mozilla Firefox
 - 4. Microsoft Outlook

Question ID : **630680572009**
Option 1 ID : **6306802236908**
Option 2 ID : **6306802236909**
Option 3 ID : **6306802236910**
Option 4 ID : **6306802236911**
Status : **Answered**
Chosen Option : **4**

Q.11 Which organelle is responsible for producing ATP, the cell's energy currency?

- Ans**
- 1. Nucleus
 - 2. Mitochondrion
 - 3. Golgi apparatus
 - 4. Endoplasmic reticulum

Question ID : **630680411630**
Option 1 ID : **6306801605355**
Option 2 ID : **6306801605356**
Option 3 ID : **6306801605357**
Option 4 ID : **6306801605358**
Status : **Answered**
Chosen Option : **4**

Q.12 When did the government launch Start-up India Seed Fund Scheme?

- Ans**
- 1. 2020
 - 2. 2021
 - 3. 2022
 - 4. 2023

Question ID : **630680481018**
Option 1 ID : **6306801878656**
Option 2 ID : **6306801878657**
Option 3 ID : **6306801878658**
Option 4 ID : **6306801878659**
Status : **Not Answered**
Chosen Option : **--**

Q.13 When was the 'Mahatma Gandhi Series' of Indian Bank notes started?

- Ans**
- 1. 1991
 - 2. 1996
 - 3. 2000
 - 4. 1994

Question ID : **630680512479**
Option 1 ID : **6306802002886**
Option 2 ID : **6306802002888**
Option 3 ID : **6306802002889**
Option 4 ID : **6306802002887**
Status : **Answered**
Chosen Option : **1**



Q.14 The central government, in 2021, set up an eight-member panel for framing a new law for drugs, cosmetics and medical devices. Who headed that panel?

- Ans
- 1. AK Pradhan
 - 2. Rajiv Wadhawan
 - 3. NL Meena
 - 4. Dr. VG Somani

Question ID : 63068053241
Option 1 ID : 630680205067
Option 2 ID : 630680205066
Option 3 ID : 630680205069
Option 4 ID : 630680205068
Status : Not Answered
Chosen Option : --

Q.15 According to Article 243 I of the Constitution, the Governor of a state constitutes the Finance Commission for every _____.

- Ans
- 1. 2 years
 - 2. 3 years
 - 3. 5 years
 - 4. 7 years

Question ID : 630680493646
Option 1 ID : 6306801928312
Option 2 ID : 6306801928313
Option 3 ID : 6306801928314
Option 4 ID : 6306801928315
Status : Not Answered
Chosen Option : --

Q.16 Which of the following are NOT contents of soil?

- Ans
- 1. Bacteria and fungi
 - 2. Minerals
 - 3. Steroids
 - 4. Grains of stones

Question ID : 630680546831
Option 1 ID : 6306802137894
Option 2 ID : 6306802137891
Option 3 ID : 6306802137893
Option 4 ID : 6306802137892
Status : Answered
Chosen Option : 3

Q.17 Which of the following is a simple monocarboxylic acid containing two carbons?

- Ans
- 1. Acetic acid
 - 2. Valeric acid
 - 3. Capric acid
 - 4. Palmitic acid

Question ID : 630680402998
Option 1 ID : 6306801571563
Option 2 ID : 6306801571566
Option 3 ID : 6306801571564
Option 4 ID : 6306801571565
Status : Not Answered
Chosen Option : --



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Q.18 The 42nd Constitutional Amendment Act (1976) added three new words to the Preamble i.e. socialist, secular and _____.

- Ans**
- 1. republic
 - 2. fraternity
 - 3. integrity
 - 4. democratic

Question ID : 630680804340
Option 1 ID : 6306803151093
Option 2 ID : 6306803151094
Option 3 ID : 6306803151092
Option 4 ID : 6306803151091
Status : Not Answered
Chosen Option : --

Q.19 Which of the following is NOT an animal of Phylum Chordate?

- Ans**
- 1. Rabbit
 - 2. Snake
 - 3. Earthworm
 - 4. Frog

Question ID : 630680542130
Option 1 ID : 6306802119464
Option 2 ID : 6306802119462
Option 3 ID : 6306802119463
Option 4 ID : 6306802119461
Status : Answered
Chosen Option : 3

Q.20 Which organelle contains enzymes that help break down fatty acids and detoxify certain compounds in the cell?

- Ans**
- 1. Centriole
 - 2. Peroxisome
 - 3. Vacuole
 - 4. Lysosome

Question ID : 630680540553
Option 1 ID : 6306802113290
Option 2 ID : 6306802113288
Option 3 ID : 6306802113289
Option 4 ID : 6306802113287
Status : Answered
Chosen Option : 2

Q.21 Why is it safer for our hands to use a wooden spoon while cooking in a hot pan instead of using a metallic spoon?

- Ans**
- 1. Wood is a good conductor of heat and helps in cooking.
 - 2. Wood adds nice flavours to the food being cooked.
 - 3. Wood is an insulator and does not heat up.
 - 4. Wood helps the food cook faster.

Question ID : 630680397593
Option 1 ID : 6306801550293
Option 2 ID : 6306801550294
Option 3 ID : 6306801550295
Option 4 ID : 6306801550296
Status : Answered
Chosen Option : 3



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Q.22 The _____ Health Card Scheme was launched by the Government of India in the year 2014-15.

- Ans
- 1. Forest
 - 2. Soil
 - 3. Mineral
 - 4. Water

Question ID : 630680511044
Option 1 ID : 6306801997306
Option 2 ID : 6306801997308
Option 3 ID : 6306801997307
Option 4 ID : 6306801997309
Status : Not Answered
Chosen Option : --

Q.23 Certain grass-eating animals complete the digestion of food in two processes. First, they swallow partially digested food and then they regurgitate and chew upon that food again. What are such animals known as?

- Ans
- 1. Heterotrophs
 - 2. Regurgitates
 - 3. Autotrophs
 - 4. Ruminants

Question ID : 630680539637
Option 1 ID : 6306802109673
Option 2 ID : 6306802109674
Option 3 ID : 6306802109675
Option 4 ID : 6306802109676
Status : Not Answered
Chosen Option : --

Q.24 What is the unit of electric current?

- Ans
- 1. Ampere
 - 2. Ohm
 - 3. Volt
 - 4. Watt

Question ID : 630680407785
Option 1 ID : 6306801590078
Option 2 ID : 6306801590080
Option 3 ID : 6306801590079
Option 4 ID : 6306801590081
Status : Not Answered
Chosen Option : --

Q.25 Which directive principle was added by the 97th Amendment Act 2011?

- Ans
- 1. Promotion of co-operative societies
 - 2. Uniform civil code for the citizens
 - 3. Separation of judiciary from executive
 - 4. Organisation of village panchayats

Question ID : 630680511441
Option 1 ID : 6306801998894
Option 2 ID : 6306801998896
Option 3 ID : 6306801998895
Option 4 ID : 6306801998897
Status : Not Answered
Chosen Option : --



Q.26 Identify the incorrect pair (River and its origin) from the following.

- Ans** 1. Godavari - Nasik district
 2. Krishna - Brahmagri range
 3. Tapi - Satpura ranges
 4. Narmada - Amarkantak hills

Question ID : **630680510962**
Option 1 ID : **6306801996979**
Option 2 ID : **6306801996980**
Option 3 ID : **6306801996978**
Option 4 ID : **6306801996981**
Status : **Not Answered**
Chosen Option : --

Q.27 Which is the correct formula to calculate the formula unit mass of a compound?

- Ans** 1. Multiplication of all the atomic masses of all the atoms within the formula
 2. Summation of all the atomic weights of all the atoms within the formula
 3. Summation of all the atomic masses of all the atoms within the formula
 4. Multiplication of all the atomic weights of all the atoms within the formula

Question ID : **630680401909**
Option 1 ID : **6306801567382**
Option 2 ID : **6306801567383**
Option 3 ID : **6306801567384**
Option 4 ID : **6306801567385**
Status : **Not Answered**
Chosen Option : --

Q.28 Rank the following states in descending order of their percentage share of the population in the country's population, as per Census 2011.

Bihar, West Bengal, Rajasthan, Madhya Pradesh

- Ans** 1. Rajasthan-Madhya Pradesh-Bihar-West Bengal
 2. Madhya Pradesh-Bihar-Rajasthan-West Bengal
 3. Bihar-West Bengal-Madhya Pradesh-Rajasthan
 4. Bihar-Madhya Pradesh-Rajasthan-West Bengal

Question ID : **630680488628**
Option 1 ID : **6306801908531**
Option 2 ID : **6306801908532**
Option 3 ID : **6306801908533**
Option 4 ID : **6306801908534**
Status : **Not Answered**
Chosen Option : --



Q.29 Which of the following does NOT affect the changes in the states of matter?

- A) Changing the kinetic energy in the particles of the matter
- B) Changing the temperature of the matter
- C) Changing the pressure on the matter
- D) Changing the colour of the matter

Ans 1. B

2. D

3. C

4. A

Question ID : 630680539201

Option 1 ID : 6306802107949

Option 2 ID : 6306802107951

Option 3 ID : 6306802107950

Option 4 ID : 6306802107948

Status : Not Answered

Chosen Option : --

Q.30 Which sulphur containing preservative is used to increase the shelf life of meat products such as fresh sausages and burgers?

Ans 1. Sodium metabisulphite

2. Sodium polysulfides

3. Sodium thiosulfate

4. Sodium phenyl sulfide

Question ID : 630680404447

Option 1 ID : 6306801577288

Option 2 ID : 6306801577289

Option 3 ID : 6306801577290

Option 4 ID : 6306801577291

Status : Not Answered

Chosen Option : --

Q.31 The process of measuring various physical and chemical properties of the rocks and fluids within a wellbore is known as:

Ans 1. well logging

2. drilling

3. reservoir modelling

4. enhanced oil recovery techniques

Question ID : 630680615287

Option 1 ID : 6306802407822

Option 2 ID : 6306802407823

Option 3 ID : 6306802407824

Option 4 ID : 6306802407825

Status : Not Answered

Chosen Option : --



Q.32 Who among the following related to Patiala gharana?

- Ans
- 1. Amir Khan
 - 2. Goswami Lalji Mahara
 - 3. Ghagge Nazir Khan
 - 4. Fateh Ali Khan and Ali Baksh Khan

Question ID : **630680412050**
Option 1 ID : **6306801607037**
Option 2 ID : **6306801607035**
Option 3 ID : **6306801607038**
Option 4 ID : **6306801607036**
Status : **Not Answered**
Chosen Option : --

Q.33 Eukaryotic organisms can have very complex functions to sustain themselves. At the cellular level, these involve several different types of chemical functions like energy production, metabolism etc. What are the membrane-bound structures called, which are present within the cell to keep each of these functionalities separate?

- Ans
- 1. Cytoplasm
 - 2. Plasma gel
 - 3. Organelles
 - 4. Nucleoid

Question ID : **630680403321**
Option 1 ID : **6306801572793**
Option 2 ID : **6306801572794**
Option 3 ID : **6306801572795**
Option 4 ID : **6306801572796**
Status : **Not Answered**
Chosen Option : --

Q.34 Which ministry introduced the Press and Registration of Periodicals (PRP) Bill in Rajya Sabha on 1 August 2023?

- Ans
- 1. Ministry of Electronics and Information Technology
 - 2. Ministry of Commerce and Industry
 - 3. Ministry of Information and Broadcasting
 - 4. Ministry of Corporate Affairs

Question ID : **630680411226**
Option 1 ID : **6306801603656**
Option 2 ID : **6306801603657**
Option 3 ID : **6306801603658**
Option 4 ID : **6306801603659**
Status : **Not Answered**
Chosen Option : --



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Q.35 According to Census of India 2011, which state/union territory has the second highest sex ratio?

- Ans
- 1. Chandigarh
 - 2. Tamil Nadu
 - 3. Puducherry
 - 4. Himachal Pradesh

Question ID : 630680477178
Option 1 ID : 6306801863881
Option 2 ID : 6306801863882
Option 3 ID : 6306801863883
Option 4 ID : 6306801863884
Status : Not Answered
Chosen Option : --

Q.36 _____, a woman educated at home at Poona, published a book, Stripurushtulna, criticising the social differences between men and women.

- Ans
- 1. Kadambini Devi
 - 2. Pandita Ramabai
 - 3. Tarabai Shinde
 - 4. Savitribai Phule

Question ID : 630680511621
Option 1 ID : 6306801999607
Option 2 ID : 6306801999609
Option 3 ID : 6306801999608
Option 4 ID : 6306801999606
Status : Not Answered
Chosen Option : --

Q.37 Which term refers to the increasing concentration of toxins within each successive link in the food chain?

- Ans
- 1. Denitrification
 - 2. Biomagnification
 - 3. Facilitation
 - 4. Stratification

Question ID : 630680404315
Option 1 ID : 6306801576763
Option 2 ID : 6306801576762
Option 3 ID : 6306801576765
Option 4 ID : 6306801576764
Status : Not Answered
Chosen Option : --



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Q.38 The Y-shaped proteinaceous structure produced by the immune cells to defend our body against harmful bacteria and viruses are known as:

- Ans 1. immunoglobulin
 2. amino acids
 3. collagen
 4. haemoglobin

Question ID : 630680457041
Option 1 ID : 6306801785109
Option 2 ID : 6306801785110
Option 3 ID : 6306801785111
Option 4 ID : 6306801785112
Status : Not Answered
Chosen Option : --

Q.39 Who among the following became the first woman Chief Executive and Chairperson of the Railway Board on 1 September 2023?

- Ans 1. Maria Kalavathy
 2. Surekha Bhosale
 3. Jaya Varma Sinha
 4. Kabitha Mathur

Question ID : 630680412694
Option 1 ID : 6306801609599
Option 2 ID : 6306801609600
Option 3 ID : 6306801609601
Option 4 ID : 6306801609602
Status : Not Answered
Chosen Option : --

Q.40 Which agency supported the Bihar State Rural Livelihoods Mission (Jeevika) in developing digital financial services?

- Ans 1. SBI
 2. RBI
 3. SIDBI
 4. SEBI

Question ID : 630680402042
Option 1 ID : 6306801567866
Option 2 ID : 6306801567867
Option 3 ID : 6306801567868
Option 4 ID : 6306801567869
Status : Not Answered
Chosen Option : --



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Q.41 What is the difference between a somatic cell and a reproductive cell?

- Ans**
- ✓ 1. Somatic cells undergo mitotic cell division while reproductive cells undergo meiotic cell division.
 - ✗ 2. The somatic cells have mitochondria but the reproductive cells do not have any mitochondria.
 - ✗ 3. Somatic cells do not contain any chromosome while reproductive cells have their own chromosome.
 - ✗ 4. The somatic cell and reproductive cell are neither diploid nor haploid.

Question ID : 630680399208
Option 1 ID : 6306801556779
Option 2 ID : 6306801556780
Option 3 ID : 6306801556781
Option 4 ID : 6306801556782
Status : Not Answered
Chosen Option : --

Q.42 In how many different combinations do the standard ASCII codes come?

- Ans**
- ✗ 1. 100
 - ✗ 2. 64
 - ✗ 3. 256
 - ✓ 4. 128

Question ID : 630680379378
Option 1 ID : 6306801478556
Option 2 ID : 6306801478555
Option 3 ID : 6306801478558
Option 4 ID : 6306801478557
Status : Not Answered
Chosen Option : --

Q.43 The Battle of Chandawar was fought between Muhammad Ghori and _____, a ruler of the Gahadavala dynasty, in 1194.

- Ans**
- ✗ 1. Harishchandra
 - ✗ 2. Govindachandra
 - ✗ 3. Vijayachandra
 - ✓ 4. Jaichand

Question ID : 630680511630
Option 1 ID : 6306801999642
Option 2 ID : 6306801999645
Option 3 ID : 6306801999644
Option 4 ID : 6306801999643
Status : Not Answered
Chosen Option : --



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Q.44 In which of the following Olympic Games did Dipa Karmakar participate?

- Ans 1. Rio 2016
 2. London 2012
 3. Athens 2004
 4. Beijing 2008

Question ID : 630680435723
Option 1 ID : 6306801700813
Option 2 ID : 6306801700814
Option 3 ID : 6306801700815
Option 4 ID : 6306801700816
Status : Not Answered
Chosen Option : --

Q.45 Who introduced the Digital Personal Data Protection Bill in the Lok Sabha on 3 August 2023?

- Ans 1. Subrahmanyam Jaishankar
 2. Piyush Goyal
 3. Anurag Singh Thakur
 4. Ashwini Vaishnaw

Question ID : 630680411231
Option 1 ID : 6306801603676
Option 2 ID : 6306801603677
Option 3 ID : 6306801603678
Option 4 ID : 6306801603679
Status : Not Answered
Chosen Option : --

Q.46 Where is the headquarters of the National Remote Sensing Centre (NRSC)?

- Ans 1. Hyderabad
 2. Lucknow
 3. Bhopal
 4. Bhubaneshwar

Question ID : 630680510983
Option 1 ID : 6306801997063
Option 2 ID : 6306801997062
Option 3 ID : 6306801997065
Option 4 ID : 6306801997064
Status : Not Answered
Chosen Option : --

Q.47 Which Article of the Constitution of India prohibits discrimination on the grounds of religion, race and caste?

- Ans 1. Article 15
 2. Article 16
 3. Article 17
 4. Article 18

Question ID : 630680426437
Option 1 ID : 6306801663834
Option 2 ID : 6306801663835
Option 3 ID : 6306801663836
Option 4 ID : 6306801663837
Status : Not Answered
Chosen Option : --



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Q.48 Who is the governor of Reserve Bank of India as of May 2023?

- Ans
- 1. Urijit Patel
 - 2. YV Patel
 - 3. Shaktikanta Das
 - 4. Raguram Rajan

Question ID : 630680513854
Option 1 ID : 6306802008042
Option 2 ID : 6306802008043
Option 3 ID : 6306802008044
Option 4 ID : 6306802008041
Status : Not Answered
Chosen Option : --

Q.49 What is the value of 1 electron volt (eV), which is especially used for nuclear science?

- Ans
- 1. 1.602×10^{-19} joules
 - 2. 1.902×10^{-10} joules
 - 3. 2.202×10^{-11} joules
 - 4. 1.202×10^{-15} joules

Question ID : 630680402129
Option 1 ID : 6306801568205
Option 2 ID : 6306801568206
Option 3 ID : 6306801568207
Option 4 ID : 6306801568204
Status : Not Answered
Chosen Option : --

Q.50 How does the 'Shram Suvidha Portal' of the Ministry of Labour and Employment contribute to transparency in labour law enforcement?

- Ans
- 1. By providing child care centres
 - 2. By allowing women to work night shifts
 - 3. By uploading inspection reports within 48 hours
 - 4. By ensuring minimum wages for all employees

Question ID : 630680488096
Option 1 ID : 6306801906443
Option 2 ID : 6306801906444
Option 3 ID : 6306801906445
Option 4 ID : 6306801906446
Status : Not Answered
Chosen Option : --

Section : General Engineering Electrical



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Q.1 A Kaplan turbine is used for _____.

- Ans
- 1. low heads and large quantities of water
 - 2. low heads and low quantities of water
 - 3. high heads and large quantities of water
 - 4. high heads and low quantities of water

Question ID : 630680509443
Option 1 ID : 6306801991044
Option 2 ID : 6306801991042
Option 3 ID : 6306801991043
Option 4 ID : 6306801991041
Status : Answered
Chosen Option : 2

Q.2 Which of the following testing methods is NOT used to test an AC energy meter?

- Ans
- 1. Creep test
 - 2. Long period dial test
 - 3. Starting test
 - 4. Braking test

Question ID : 630680198623
Option 1 ID : 630680770451
Option 2 ID : 630680770452
Option 3 ID : 630680770453
Option 4 ID : 630680770454
Status : Answered
Chosen Option : 4

Q.3 What is the formula for calculating the magnitude of the mechanical force experienced by a current-carrying conductor perpendicular to the magnetic field, where B = magnetic flux density, I = Current and L = Length of the conductor?

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 630680503336
Option 1 ID : 6306801966927
Option 2 ID : 6306801966925
Option 3 ID : 6306801966926
Option 4 ID : 6306801966928
Status : Answered
Chosen Option : 2



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Q.4 How does the power factor affect the reading of a wattmeter if voltage and current are unaltered?

- Ans**
- 1. The reading increases with square of the power factor.
 - 2. The reading is independent of the power factor.
 - 3. The reading decreases with the power factor.
 - 4. The reading increases with the power factor.

Question ID : 630680509369
Option 1 ID : 6306801990766
Option 2 ID : 6306801990765
Option 3 ID : 6306801990763
Option 4 ID : 6306801990764
Status : Not Answered
Chosen Option : --

Q.5 In the context of electromagnetism, if a conductor is held in the right hand with the thumb pointing in the direction of the current, then the other fingers will point towards the _____.

- Ans**
- 1. magnetic field intensity
 - 2. direction of the magnetic field
 - 3. current flowing through the conductor
 - 4. length of the conductor

Question ID : 630680504231
Option 1 ID : 6306801970488
Option 2 ID : 6306801970487
Option 3 ID : 6306801970486
Option 4 ID : 6306801970485
Status : Answered
Chosen Option : 2

Q.6 In electromagnetism of parallel magnetic circuits, the reluctance offered for two parallel paths will be _____.

- Ans**
- 1. square for each path
 - 2. quarter for each path
 - 3. cube for each path
 - 4. half for each path

Question ID : 630680504213
Option 1 ID : 6306801970413
Option 2 ID : 6306801970416
Option 3 ID : 6306801970414
Option 4 ID : 6306801970415
Status : Answered
Chosen Option : 4



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Q.7 A moving iron ammeter with a range of 0 to 1 amps has an internal resistance of 50 mΩ and an inductance of 0.1 MH. To increase the range to 0-10 Ampere for all operational frequencies, a shunt coil is connected. The shunt coils resistance in mΩ and time constant in milliseconds are each given as:

- Ans 1. 5.55, 2
 2. 2; 0.55
 3. 11.1; 2
 4. 2; 1

Question ID : 630680509387
Option 1 ID : 6306801990835
Option 2 ID : 6306801990837
Option 3 ID : 6306801990838
Option 4 ID : 6306801990836
Status : Not Answered
Chosen Option : --

Q.8 A three-phase star-connected synchronous alternator of rating 22 kVA, 20 kV, 50 Hz has synchronous reactance of 8 Ω per phase. The induced voltage per phase is 20 kV and the line terminal voltage is 15 kV. Find the 3-phase maximum power of the machine.

- Ans 1. 37.5 MW
 2. 211.5 MW
 3. 121.5 MW
 4. 112.5 MW

Question ID : 630680339333
Option 1 ID : 6306801319903
Option 2 ID : 6306801319902
Option 3 ID : 6306801319904
Option 4 ID : 6306801319901
Status : Not Answered
Chosen Option : --

Q.9 In a magnetic circuit, when magnetic flux is passing across the air gap, then effective area of the gap increases and magnetic flux density decreases in the gap. This effect is known as _____.

- Ans 1. magnetic hysteresis
 2. magnetising force
 3. magnetic fringing
 4. magnetic leakage

Question ID : 630680504222
Option 1 ID : 6306801970450
Option 2 ID : 6306801970451
Option 3 ID : 6306801970449
Option 4 ID : 6306801970452
Status : Answered
Chosen Option : 1



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Q.10 Identify the INCORRECT statement regarding a nuclear power plant.

- Ans**
- 1. Graphite and Boron carbides are used as control rods.
 - 2. The ordinary water is used as a moderator only after it is enriched with uranium.
 - 3. Heavy water can be used as a coolant.
 - 4. The fuel rods contain pellets of uranium.

Question ID : 630680509405
Option 1 ID : 6306801990889
Option 2 ID : 6306801990892
Option 3 ID : 6306801990890
Option 4 ID : 6306801990891
Status : Answered
Chosen Option : 3

Q.11 Which of the following facts is correct for KCL?

- Ans**
- 1. Charge accumulation may or may not be possible
 - 2. Possibility of charge accumulation at node
 - 3. Energy may be stored at the node
 - 4. Zero charge accumulation at node

Question ID : 630680340629
Option 1 ID : 6306801324960
Option 2 ID : 6306801324957
Option 3 ID : 6306801324958
Option 4 ID : 6306801324959
Status : Answered
Chosen Option : 2

Q.12 The equivalent electrical circuit of a solar PV cell has a _____.

- Ans**
- 1. capacitor
 - 2. inductor
 - 3. transistor
 - 4. diode

Question ID : 630680509437
Option 1 ID : 6306801991019
Option 2 ID : 6306801991020
Option 3 ID : 6306801991018
Option 4 ID : 6306801991017
Status : Answered
Chosen Option : 4

Q.13 Which of the following statements is correct about inert gas metal arc welding?

- Ans**
- 1. In this method, flux is required.
 - 2. In this method, concentration of heat is easily possible.
 - 3. In this method, concentration of heat is difficult.
 - 4. This method is particularly suitable for welding heavy metals.

Question ID : 630680389656
Option 1 ID : 6306801519083
Option 2 ID : 6306801519085
Option 3 ID : 6306801519084
Option 4 ID : 6306801519082
Status : Answered
Chosen Option : 4



Q.14 Which of the following statements are correct about the maintenance factor?
I) It is the ratio of illumination under normal working condition to the total lumen given out by the lamp.
II) It is the ratio of illumination under normal working condition to the illumination when the things are perfectly clean.
III) The accumulation of dust, dirt and smoke on the lamp decreases the maintenance factor.
IV) It is the ratio of illumination when the things are perfectly clean to the illumination under normal working condition.

- Ans** 1. Statements II and III
 2. Statements III and IV
 3. Statements I and III
 4. Only Statement II

Question ID : 630680401394
Option 1 ID : 6306801565368
Option 2 ID : 6306801565369
Option 3 ID : 6306801565366
Option 4 ID : 6306801565367
Status : Answered
Chosen Option : 3

Q.15 Which of the following materials is widely used for high-temperature heating (1500 °C) applications such as in industrial furnaces and kilns?

- Ans** 1. Nickel chromium alloy
 2. Silicon carbide
 3. Bronze
 4. Stainless steel

Question ID : 630680389649
Option 1 ID : 6306801519055
Option 2 ID : 6306801519057
Option 3 ID : 6306801519056
Option 4 ID : 6306801519054
Status : Answered
Chosen Option : 1

Q.16 A 4 pole, 50 Hz IM operates at 7% slip. The frequency of EMF induced in the rotor will be _____.

- Ans** 1. 2.5 Hz
 2. 3.5 Hz
 3. 0.5 Hz
 4. 1.5 Hz

Question ID : 630680509551
Option 1 ID : 6306801991475
Option 2 ID : 6306801991476
Option 3 ID : 6306801991473
Option 4 ID : 6306801991474
Status : Answered
Chosen Option : 2



Q.17 The range of signal generating frequencies for a function generator is _____.

- Ans
- 1. 0.01 kHz to 100 Hz
 - 2. 0.01 Hz to 100 kHz
 - 3. 0.01 Hz to 100 Hz
 - 4. 0.01 kHz to 100 kHz

Question ID : 630680396179
Option 1 ID : 6306801544830
Option 2 ID : 6306801544829
Option 3 ID : 6306801544831
Option 4 ID : 6306801544828
Status : Answered
Chosen Option : 3

Q.18 At higher forward voltages, a junction diode is likely to _____.

- Ans
- 1. burn out
 - 2. break down
 - 3. become noisy
 - 4. get saturated

Question ID : 630680502505
Option 1 ID : 6306801963603
Option 2 ID : 6306801963605
Option 3 ID : 6306801963602
Option 4 ID : 6306801963604
Status : Answered
Chosen Option : 2

Q.19 What will be the total active power consumed by a 3-phase, delta-connected system, which is supplied with a line voltage of 230 V, when the value of the phase current is 15 A and the current lags the voltage by 30°?

- Ans
- 1. 8.963 kW
 - 2. 12.26 kW
 - 3. 10.25 kW
 - 4. 14.63 kW

Question ID : 630680504475
Option 1 ID : 6306801971461
Option 2 ID : 6306801971463
Option 3 ID : 6306801971464
Option 4 ID : 6306801971462
Status : Not Answered
Chosen Option : --

Q.20 Which of the following statements is correct?

- Ans
- 1. Fault can be easily located in underground cables.
 - 2. Overhead lines are more costly as compared to underground cables.
 - 3. The possibility of supply interruption due to lightning is more with underground cables.
 - 4. The location of the fault in overhead lines can be found easily.

Question ID : 630680503860
Option 1 ID : 6306801969004
Option 2 ID : 6306801969001
Option 3 ID : 6306801969003
Option 4 ID : 6306801969002
Status : Answered
Chosen Option : 4



Q.21 The value of inductance needed to store 4kWh of energy in a coil carrying a 2000A current is:

- Ans 1. 7.2 H
 2. 7.2×10^6 H
 3. 720 H
 4. 72 H

Question ID : 630680504174
Option 1 ID : 6306801970260
Option 2 ID : 6306801970259
Option 3 ID : 6306801970258
Option 4 ID : 6306801970257
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.22 Which of the following statements is/are NOT true for the damper windings in alternators?

- I) These are useful in preventing the hunting in alternators.
II) Usually, damper windings are provided in smooth cylindrical type rotor alternators.
III) Under normal working conditions, i.e., if machine is at synchronous speed, damper winding do not carry any currents.
IV) Damper windings are also used to provide starting torque in alternators.

- Ans 1. IV
 2. III
 3. II
 4. I

Question ID : 630680366349
Option 1 ID : 6306801426916
Option 2 ID : 6306801426915
Option 3 ID : 6306801426914
Option 4 ID : 6306801426913
Status : **Answered**
Chosen Option : 1

Q.23

- Ans 1. Both 1 and 2
 2. Neither 1 nor 2
 3. Only 1
 4. Only 2

Question ID : 630680334736
Option 1 ID : 6306801302203
Option 2 ID : 6306801302204
Option 3 ID : 6306801302201
Option 4 ID : 6306801302202
Status : **Answered**
Chosen Option : 1



Q.24 A coil having 100 turns is placed in the magnetic field of 1m wb. Find the average EMF induced if the coil is moved in 0.2 seconds from the given field to a field of 0.4m wb.

- Ans
- 1. 10 volts
 - 2. 0.3 volt
 - 3. 3 volts
 - 4. 30 volts

Question ID : 630680504200
Option 1 ID : 6306801970364
Option 2 ID : 6306801970362
Option 3 ID : 6306801970361
Option 4 ID : 6306801970363
Status : Answered
Chosen Option : 3

Q.25 How many types of dependent sources are there?

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

Question ID : 630680340662
Option 1 ID : 6306801325089
Option 2 ID : 6306801325090
Option 3 ID : 6306801325092
Option 4 ID : 6306801325091
Status : Answered
Chosen Option : 2

Q.26 The operating point of a transistor known as _____.

- Ans
- 1. quiescent point
 - 2. cut-off point
 - 3. active point
 - 4. threshold point

Question ID : 630680502524
Option 1 ID : 6306801963678
Option 2 ID : 6306801963679
Option 3 ID : 6306801963681
Option 4 ID : 6306801963680
Status : Answered
Chosen Option : 4

Q.27 What does the area under the Load Duration Curve represent?

- Ans
- 1. The total electricity consumption of consumers during the day
 - 2. The total number of units generated for the period considered
 - 3. The load factor of the power station
 - 4. The total power generated by a power plant during the day

Question ID : 630680374440
Option 1 ID : 6306801458940
Option 2 ID : 6306801458941
Option 3 ID : 6306801458942
Option 4 ID : 6306801458939
Status : Answered
Chosen Option : 1



Q.28 What is the function of the pressure spring in a three-phase energy meter?

- Ans
- 1. It provides deflection torque to the moving member.
 - 2. It moves the aluminium discs in response to the torque generated by the magnetic field.
 - 3. It provides mechanical support.
 - 4. It maintains a constant pressure between the aluminium discs and the disc spindles.

Question ID : 630680509371
Option 1 ID : 6306801990774
Option 2 ID : 6306801990773
Option 3 ID : 6306801990772
Option 4 ID : 6306801990771
Status : Answered
Chosen Option : 4

Q.29 What is the meaning of the term 'load factor'?

- Ans
- 1. The ratio of peak load to average load over a year
 - 2. The ratio of total energy consumption to total energy production
 - 3. The ratio of average load to peak load over a year
 - 4. The ratio of total energy production to total energy consumption

Question ID : 630680374425
Option 1 ID : 6306801458880
Option 2 ID : 6306801458881
Option 3 ID : 6306801458879
Option 4 ID : 6306801458882
Status : Answered
Chosen Option : 1

Q.30 The scattering of molten metal droplets outside the weld zone, which can lead to surface irregularities is called weld_____.

- Ans
- 1. under fill
 - 2. burn-through
 - 3. spatter
 - 4. slag inclusions

Question ID : 630680381621
Option 1 ID : 6306801487417
Option 2 ID : 6306801487415
Option 3 ID : 6306801487418
Option 4 ID : 6306801487416
Status : Answered
Chosen Option : 3

Q.31 If the value of the common base current gain (α) is 0.98, then the value of the common collector current gain (γ) is _____.

- Ans
- 1. 0.02
 - 2. 50
 - 3. 49
 - 4. 98

Question ID : 630680333329
Option 1 ID : 6306801296591
Option 2 ID : 6306801296590
Option 3 ID : 6306801296589
Option 4 ID : 6306801296592
Status : Answered
Chosen Option : 1



Q.32 The total inductance of two coupled coils in the series opposing and series aiding connections are 12 mH and 38 mH, respectively. Find the mutual inductance between the coils.

- Ans
- 1. 26 mH
 - 2. 13 mH
 - 3. 10 mH
 - 4. 6.5 mH

Question ID : 630680504193
Option 1 ID : 6306801970334
Option 2 ID : 6306801970335
Option 3 ID : 6306801970333
Option 4 ID : 6306801970336
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.33 Which of the following statements related to the speed control of DC shunt and series motors is correct?

- Ans
- 1. In a tapped field control when all the field turns are present in the circuit, the motor runs at the lowest speed.
 - 2. Field diverters and tapped field control methods are mostly used in DC shunt motors.
 - 3. In the Rheostatic control methods of shunt motors, the series resistor must be connected between the line and the motor.
 - 4. In series-parallel control, the motors are joined in parallel at lower speeds and series at higher speeds.

Question ID : 630680503388
Option 1 ID : 6306801967134
Option 2 ID : 6306801967133
Option 3 ID : 6306801967135
Option 4 ID : 6306801967136
Status : Answered
Chosen Option : 3

Q.34

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 630680502518
Option 1 ID : 6306801963657
Option 2 ID : 6306801963656
Option 3 ID : 6306801963655
Option 4 ID : 6306801963654
Status : Answered
Chosen Option : 1

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Q.35 If the speed of a 3-phase, 400 V, 50 Hz synchronous motor is trebled, the efficiency of the machine will _____.

- Ans**
- 1. become zero
 - 2. remain constant
 - 3. reduce to one-third
 - 4. become 3 times

Question ID : 630680337173
Option 1 ID : 6306801311416
Option 2 ID : 6306801311415
Option 3 ID : 6306801311414
Option 4 ID : 6306801311413
Status : Answered
Chosen Option : 2

Q.36 Select the correct statement for a medium overhead transmission line.

- Ans**
- 1. Load current is directly proportional to the load power factor.
 - 2. Load current is inversely proportional to the load power factor.
 - 3. Load current is directly proportional to the square of load power factor.
 - 4. Load current is inversely proportional to the square of load power factor.

Question ID : 630680503841
Option 1 ID : 6306801968925
Option 2 ID : 6306801968926
Option 3 ID : 6306801968927
Option 4 ID : 6306801968928
Status : Answered
Chosen Option : 2

Q.37 In the context of electromagnetism, the magnetic polarity of a coil of several turns can be determined by the _____.

- Ans**
- 1. mechanism of force production
 - 2. right-hand rule
 - 3. left-hand rule
 - 4. molecular theory

Question ID : 630680504232
Option 1 ID : 6306801970492
Option 2 ID : 6306801970489
Option 3 ID : 6306801970490
Option 4 ID : 6306801970491
Status : Answered
Chosen Option : 3



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Q.38 Which of the following statements regarding biochemical-based power plants is/are true?

- A) Methane is emitted along with carbon dioxide in aerobic digestion.
- B) Sewage gas represents a mix of carbon dioxide, methane and trace gas.
- C) Syngas is generated as a result of gasification in such a plant.

Ans 1. Only B and C

2. Only B

3. Only A and B

4. Only A and C

Question ID : 630680509412

Option 1 ID : 6306801990920

Option 2 ID : 6306801990918

Option 3 ID : 6306801990917

Option 4 ID : 6306801990919

Status : Answered

Chosen Option : 3

Q.39 When is the error under testing of energy meter directly obtained?

Ans 1. The meter under test and the rotating substandard meter constants are 1.

2. The meter under test and the rotating substandard meter constants are different.

3. The meter under test and the rotating substandard meter constants are zero.

4. The meter under test and the rotating substandard meter constants are same.

Question ID : 630680396151

Option 1 ID : 6306801544719

Option 2 ID : 6306801544716

Option 3 ID : 6306801544718

Option 4 ID : 6306801544717

Status : Answered

Chosen Option : 4

Q.40 What is the advantage of using the current grading in relay systems?

Ans 1. It improves the frequency stability of the power system.

2. It overcomes the long time delays occurring in graded time lag systems.

3. It reduces the impedance between two sub-stations.

4. It ensures quick tripping of the faulty circuit.

Question ID : 630680218623

Option 1 ID : 630680848402

Option 2 ID : 630680848401

Option 3 ID : 630680848400

Option 4 ID : 630680848399

Status : Answered

Chosen Option : 3



Q.41 The torque developed in the squirrel cage induction motor with auto-starter is

- Ans**
- 1. $K^2 \times$ torque with direct switching
 - 2. k^2 /torque with direct switching
 - 3. $K \times$ torque with direct switching
 - 4. k /torque with direct switching

Question ID : 630680509575
Option 1 ID : 6306801991572
Option 2 ID : 6306801991571
Option 3 ID : 6306801991570
Option 4 ID : 6306801991569
Status : Answered
Chosen Option : 3

Q.42 Which of the following types of materials shows a movement from a weaker region to a stronger region of a non-uniform magnetic field?

- Ans**
- 1. Non-magnetic material
 - 2. Diamagnetic material
 - 3. Paramagnetic material
 - 4. Insulating material

Question ID : 630680503967
Option 1 ID : 6306801969429
Option 2 ID : 6306801969430
Option 3 ID : 6306801969431
Option 4 ID : 6306801969432
Status : Answered
Chosen Option : 3

Q.43 In the estimation and costing of public installations, which of the following factors is required, especially in long stretches of the road and even more on complicated intersections?

- Ans**
- 1. Width of illumination Limitation of glare
 - 2. Visual guidance
 - 3. Limitations of glare
 - 4. Level of luminance

Question ID : 630680365724
Option 1 ID : 6306801424422
Option 2 ID : 6306801424423
Option 3 ID : 6306801424421
Option 4 ID : 6306801424424
Status : Answered
Chosen Option : 1



Q.44 Which of the following statements are true for synchronous motor losses?

- A) Friction and windage losses increase with the cube of speed.
- B) The Eddy current loss is reduced by laminating the core.
- C) Copper losses are independent of load.
- D) Core losses increase with the square of the load.

Ans 1. A and D

2. A and B

3. C and D

4. B and C

Question ID : 630680337174

Option 1 ID : 6306801311420

Option 2 ID : 6306801311417

Option 3 ID : 6306801311419

Option 4 ID : 6306801311418

Status : Answered

Chosen Option : 1

Q.45 Chargeable expenses are occasionally also termed as _____.

Ans 1. direct expense

2. lump sum expense

3. major expense

4. overhead expense

Question ID : 630680508372

Option 1 ID : 6306801986829

Option 2 ID : 6306801986832

Option 3 ID : 6306801986830

Option 4 ID : 6306801986831

Status : Answered

Chosen Option : 2

Q.46 A Lissajous patterns on a Cathode Ray Oscilloscope (CRO) has 8 vertical maximum values and 4 horizontal maximum values. The frequency of the horizontal input is 1600 Hz. Determine the frequency of the vertical input?

Ans 1. 200 Hz

2. 800 Hz

3. 600 Hz

4. 400 Hz

Question ID : 630680509395

Option 1 ID : 6306801990867

Option 2 ID : 6306801990870

Option 3 ID : 6306801990869

Option 4 ID : 6306801990868

Status : Answered

Chosen Option : 2



Q.47 Medium transmission lines CANNOT be analysed by using which of the following methods?

- Ans
- 1. Nominal T method
 - 2. Nominal Pi method
 - 3. Cognitive method
 - 4. Load end capacitance

Question ID : 630680503835
Option 1 ID : 6306801968904
Option 2 ID : 6306801968901
Option 3 ID : 6306801968902
Option 4 ID : 6306801968903
Status : Answered
Chosen Option : 2

Q.48 The method which can be used for the speed control of an induction motor from the stator side is _____.

- Ans
- 1. V/R control
 - 2. adding rheostats in rotor circuit
 - 3. V/F control
 - 4. V/Z control

Question ID : 630680509571
Option 1 ID : 6306801991554
Option 2 ID : 6306801991555
Option 3 ID : 6306801991553
Option 4 ID : 6306801991556
Status : Answered
Chosen Option : 3

Q.49 The collector to the base bias configuration of a common emitter transistor implicitly employs:

- Ans
- 1. current series negative feedback
 - 2. voltage series positive feedback
 - 3. current shunt negative feedback
 - 4. voltage shunt negative feedback

Question ID : 630680502519
Option 1 ID : 6306801963660
Option 2 ID : 6306801963658
Option 3 ID : 6306801963659
Option 4 ID : 6306801963661
Status : Not Answered
Chosen Option : --



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Q.50 Which of the following is correct with reference to phasing out test on transformers?

- Ans**
- 1. This test is carried out both on 1 Φ and 3 Φ transformers to identify high-voltage winding.
 - 2. This test is carried out both on 1 Φ and 3 Φ transformers to identify the primary and secondary winding.
 - 3. This test is carried out only on 1 Φ transformer to identify primary and secondary winding.
 - 4. This test is carried out only on the 3 Φ transformer to identify primary and secondary winding in the same phase.

Question ID : 630680380953
Option 1 ID : 6306801484802
Option 2 ID : 6306801484801
Option 3 ID : 6306801484800
Option 4 ID : 6306801484799
Status : Answered
Chosen Option : 1

Q.51 A battery source of 20 V when connected to a load of 19 Ω draws a current of 1 A. What is the value of internal resistance of battery?

- Ans**
- 1. 2 Ω
 - 2. 39 Ω
 - 3. 0.5 Ω
 - 4. 1 Ω

Question ID : 630680334685
Option 1 ID : 6306801301998
Option 2 ID : 6306801301999
Option 3 ID : 6306801302000
Option 4 ID : 6306801301997
Status : Answered
Chosen Option : 4

Q.52 In regard to estimation and costing of public lighting, which of the following factors is NOT a fundamental criterion for the quality of public lighting?

- Ans**
- 1. Looping-in method
 - 2. Level of luminance
 - 3. Limitations of glare
 - 4. Optical guidance

Question ID : 630680363646
Option 1 ID : 6306801416331
Option 2 ID : 6306801416330
Option 3 ID : 6306801416329
Option 4 ID : 6306801416332
Status : Answered
Chosen Option : 1



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Q.53 In the context of electrical signals, if the signal generated has a definite pattern that repeats itself at regular intervals of time, such a signal is called _____.

- Ans
- 1. periodic signal
 - 2. non-periodic signal
 - 3. independent signal
 - 4. dependent signal

Question ID : 630680504245
Option 1 ID : 6306801970543
Option 2 ID : 6306801970544
Option 3 ID : 6306801970542
Option 4 ID : 6306801970541
Status : Answered
Chosen Option : 1

Q.54 In thermal power plant, the fire tube and water tube boilers are classified based on

- Ans
- 1. state of fuel
 - 2. tubular heating surface
 - 3. steam formation rate
 - 4. the combustion product formation

Question ID : 630680396806
Option 1 ID : 6306801547309
Option 2 ID : 6306801547310
Option 3 ID : 6306801547311
Option 4 ID : 6306801547308
Status : Answered
Chosen Option : 2

Q.55 During the tender in estimation and costing, the guarantee of the tenderer to deposit the required security and enter in to the required agreement on intimation of the acceptance of his tender is called _____.

- Ans
- 1. valid money
 - 2. deposit money
 - 3. earned money
 - 4. earnest money

Question ID : 630680394250
Option 1 ID : 6306801537290
Option 2 ID : 6306801537293
Option 3 ID : 6306801537292
Option 4 ID : 6306801537291
Status : Answered
Chosen Option : 2



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Q.56 Which of the following statements is/are true regarding the principle of operation of a switched reluctance motor?

- 1) The motor relies on the interaction of magnetic fields to produce rotational motion.
- 2) The motor uses brushes and a commutator to produce rotational motion.
- 3) The motor uses permanent magnets to produce rotational motion.
- 4) The motor uses a series of switches to control the flow of current through its coils.

Ans 1. Only 1

2. Both 1 and 3

3. Both 1 and 2

4. Both 2 and 4

Question ID : 630680333394

Option 1 ID : 6306801296850

Option 2 ID : 6306801296851

Option 3 ID : 6306801296849

Option 4 ID : 6306801296852

Status : Answered

Chosen Option : 2

Q.57 Two coupled inductors $L_1 = 8H$ and $L_2 = 32H$ have coefficient of coupling $K = 0.4$. The mutual inductance between them is

Ans 1. 102.4 H

2. 40 H

3. 6.4 H

4. 64 H

Question ID : 630680504181

Option 1 ID : 6306801970286

Option 2 ID : 6306801970287

Option 3 ID : 6306801970288

Option 4 ID : 6306801970285

Status : Answered

Chosen Option : 3

Q.58 Which statement is NOT true for fixed drum type biogas power plant?

Ans 1. It has a lower cost.

2. It has no corrosion problem.

3. The gas production per cubic metre of digester is less.

4. It has constant pressure of biogas.

Question ID : 630680509424

Option 1 ID : 6306801990968

Option 2 ID : 6306801990965

Option 3 ID : 6306801990967

Option 4 ID : 6306801990966

Status : Answered

Chosen Option : 4



Q.59 In case of installations in commercial buildings, evenly distributed lights can be obtained by the use of lenses, which reduces _____.

- Ans**
- 1. spot light
 - 2. colour
 - 3. brightness
 - 4. decoration

Question ID : **630680363637**
Option 1 ID : **6306801416296**
Option 2 ID : **6306801416294**
Option 3 ID : **6306801416295**
Option 4 ID : **6306801416293**
Status : **Answered**
Chosen Option : **3**

Q.60 The AC ripples can be reduced in a rectifier circuit by using capacitive filter by _____ the capacitance value and by _____ the input frequency.

- Ans**
- 1. decreasing; increasing
 - 2. increasing; decreasing
 - 3. increasing; increasing
 - 4. decreasing; decreasing

Question ID : **630680502531**
Option 1 ID : **6306801963709**
Option 2 ID : **6306801963708**
Option 3 ID : **6306801963706**
Option 4 ID : **6306801963707**
Status : **Answered**
Chosen Option : **2**

Q.61 The efficiency of a 60 Hz, 6-pole, 1000 rpm 3-phase induction motor is _____.

- Ans**
- 1.
 - 2.
 - 3.
 - 4.

Question ID : **630680509562**
Option 1 ID : **6306801991518**
Option 2 ID : **6306801991519**
Option 3 ID : **6306801991520**
Option 4 ID : **6306801991517**
Status : **Answered**
Chosen Option : **4**



Q.62 A sinusoidal alternating voltage of time period 36 ms has the maximum value of 250 V. Its value will reach -125 V (half the value of negative maximum) after _____ milliseconds.

- Ans
- 1. 18
 - 2. 3
 - 3. 9
 - 4. 21

Question ID : 630680383094
Option 1 ID : 6306801493284
Option 2 ID : 6306801493285
Option 3 ID : 6306801493286
Option 4 ID : 6306801493283
Status : Answered
Chosen Option : 3

Q.63 What will be the stored energy by a 100 mH inductor when 1 A current is flowing through it?

- Ans
- 1. 0.05 J
 - 2. 0.01 J
 - 3. 0.005 J
 - 4. 0.001 J

Question ID : 630680340717
Option 1 ID : 6306801325312
Option 2 ID : 6306801325310
Option 3 ID : 6306801325311
Option 4 ID : 6306801325309
Status : Answered
Chosen Option : 1

Q.64 The back EMF in a DC motor opposes the supply voltage. This is explained by _____.

- Ans
- 1. Fleming's right hand rule
 - 2. Faraday's laws of electromagnetic induction
 - 3. Fleming's left hand rule
 - 4. Lenz's law

Question ID : 630680503394
Option 1 ID : 6306801967159
Option 2 ID : 6306801967157
Option 3 ID : 6306801967158
Option 4 ID : 6306801967160
Status : Answered
Chosen Option : 4



Q.65 A 4Ω resistor has a specified maximum power dissipation of 784 W. Calculate its maximum current level.

- Ans
- 1. 14 A
 - 2. 196 A
 - 3. 16 A
 - 4. 10 A

Question ID : 630680504207
Option 1 ID : 6306801970390
Option 2 ID : 6306801970391
Option 3 ID : 6306801970392
Option 4 ID : 6306801970389
Status : Answered
Chosen Option : 1

Q.66 Which of the following triggers the failure of successive parts?

- Ans
- 1. Non-cascade tripping
 - 2. Load shedding
 - 3. Brown out
 - 4. Incipient fault in power transformer

Question ID : 630680333375
Option 1 ID : 6306801296775
Option 2 ID : 6306801296776
Option 3 ID : 6306801296774
Option 4 ID : 6306801296773
Status : Not Answered
Chosen Option : --

Q.67 An R-L series circuit, where $R = 10\ \Omega$ and $L = 0.056\ \text{H}$, is connected to an AC supply of frequency 50 Hz. The magnitude of impedance of the circuit is:

- Ans
- 1. $5.23\ \Omega$
 - 2. $30.23\ \Omega$
 - 3. $10.23\ \Omega$
 - 4. $20.23\ \Omega$

Question ID : 630680504465
Option 1 ID : 6306801971423
Option 2 ID : 6306801971424
Option 3 ID : 6306801971422
Option 4 ID : 6306801971421
Status : Not Answered
Chosen Option : --

Q.68 Which of the following is an example of an electrostatic type instrument?

- Ans
- 1. Energy meter
 - 2. Kelvin multicellular voltmeter
 - 3. Hot wire instrument
 - 4. Wattmeter

Question ID : 630680509376
Option 1 ID : 6306801990794
Option 2 ID : 6306801990792
Option 3 ID : 6306801990791
Option 4 ID : 6306801990793
Status : Answered
Chosen Option : 4



Q.69 In regard to the construction of a synchronous alternator, hydro alternators have _____.

- Ans**
- 1. larger diameter and high speed
 - 2. high speed and smaller diameter
 - 3. low speed and smaller diameter
 - 4. larger diameter and low speed

Question ID : **630680337169**
Option 1 ID : **6306801311399**
Option 2 ID : **6306801311398**
Option 3 ID : **6306801311400**
Option 4 ID : **6306801311397**
Status : **Answered**
Chosen Option : **1**

Q.70 Which of the following factors will NOT affect the selection of an inductor?

- Ans**
- 1. Power loss
 - 2. Dielectric constant
 - 3. Quality factor
 - 4. Current rating

Question ID : **630680504239**
Option 1 ID : **6306801970519**
Option 2 ID : **6306801970520**
Option 3 ID : **6306801970517**
Option 4 ID : **6306801970518**
Status : **Answered**
Chosen Option : **1**

Q.71 A combination of integral-cycle control and switching-instant control on the applied voltage wave is employed in IM for _____.

- Ans**
- 1. smooth speed control
 - 2. rotor resistance control only
 - 3. stator resistance control
 - 4. frequency control

Question ID : **630680509566**
Option 1 ID : **6306801991534**
Option 2 ID : **6306801991533**
Option 3 ID : **6306801991536**
Option 4 ID : **6306801991535**
Status : **Answered**
Chosen Option : **3**



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Q.72 A 400 V, 30 kVA, single-phase alternator has an effective armature resistance of 0.3Ω . An excitation current of 20 A produces 266 A armature current on short-circuit and an EMF of 400 V on open-circuit. The synchronous impedance and synchronous reactance of the alternator are, respectively, _____.

- Ans**
- 1. 1.46Ω and 1.5Ω
 - 2. 1.5Ω and 1.46Ω
 - 3. 20Ω and 0.3Ω
 - 4. 0.3Ω and 20Ω

Question ID : 630680337166
Option 1 ID : 6306801311385
Option 2 ID : 6306801311386
Option 3 ID : 6306801311388
Option 4 ID : 6306801311387
Status : Not Answered
Chosen Option : --

Q.73

- Ans**
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 630680209226
Option 1 ID : 630680811120
Option 2 ID : 630680811122
Option 3 ID : 630680811121
Option 4 ID : 630680811119
Status : Answered
Chosen Option : 2

Q.74 Which of the following represents the value of parameters A and D for a transmission line in end condenser method?

- Ans**
- 1. $A = 1 + YZ, D = 1$
 - 2. $A = 1; D = 1 + ZY$
 - 3. $A = 1 - ZY; D = 1 + ZY$
 - 4. $A = 1 + ZY; D = 1 + ZY$

Question ID : 630680503812
Option 1 ID : 6306801968810
Option 2 ID : 6306801968812
Option 3 ID : 6306801968811
Option 4 ID : 6306801968809
Status : Not Answered
Chosen Option : --



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Q.75 Ten resistors having the same value of resistance i.e. 10 ohm, are connected in parallel. What will be the equivalent resistance of this connection?

- Ans
- 1. 2 ohm
 - 2. 5 ohm
 - 3. 100 ohm
 - 4. 1 ohm

Question ID : 630680340673
Option 1 ID : 6306801325135
Option 2 ID : 6306801325136
Option 3 ID : 6306801325134
Option 4 ID : 6306801325133
Status : Answered
Chosen Option : 4

Q.76 If the distance between the plates of a parallel plate capacitor is increased 10 times and the area is reduced to one-fourth, then its capacitance _____.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 630680504182
Option 1 ID : 6306801970289
Option 2 ID : 6306801970291
Option 3 ID : 6306801970292
Option 4 ID : 6306801970290
Status : Answered
Chosen Option : 1

Q.77 Determine the force required to separate two magnetic surfaces with a contact area of $4\pi \text{ cm}^2$ and the magnetic flux density across the surface is 1 wb/m^2 .

- Ans
- 1. 1000 N
 - 2. 800 N
 - 3. 100 N
 - 4. 500 N

Question ID : 630680504203
Option 1 ID : 6306801970373
Option 2 ID : 6306801970376
Option 3 ID : 6306801970375
Option 4 ID : 6306801970374
Status : Not Answered
Chosen Option : --



Q.78 In regard to installations of street lighting, what is the average illumination level of Class A1 installations used in important shopping centres and at road junctions?

- Ans
- 1. 40 lumens/m²
 - 2. 10 lumens/m²
 - 3. 30 lumens/m²
 - 4. 20 lumens/m²

Question ID : 630680363643
Option 1 ID : 6306801416320
Option 2 ID : 6306801416317
Option 3 ID : 6306801416319
Option 4 ID : 6306801416318
Status : Answered
Chosen Option : 3

Q.79 The line voltage of a delta connected three phase circuit is 415 V. The phase voltage is:

- Ans
- 1. 240 V
 - 2. 415 V
 - 3. 230 V
 - 4. 220 V

Question ID : 630680334741
Option 1 ID : 6306801302223
Option 2 ID : 6306801302224
Option 3 ID : 6306801302222
Option 4 ID : 6306801302221
Status : Answered
Chosen Option : 4

Q.80 In heating effect, if 'I' is the current flowing through the conductor in 't' seconds having a resistance 'R', then the electrical energy supplied is _____.

- Ans
- 1. IR^2/t joules
 - 2. I^2R/t joules
 - 3. I^2Rt joules
 - 4. IR^2t joules

Question ID : 630680504171
Option 1 ID : 6306801970248
Option 2 ID : 6306801970247
Option 3 ID : 6306801970246
Option 4 ID : 6306801970245
Status : Answered
Chosen Option : 2

Q.81 The value of a series resistor required to limit the current through an electric bulb to 40 mA with a forward voltage drop of 4V when connected to 16 V supply is _____.

- Ans
- 1. 300 Ω
 - 2. 100 Ω
 - 3. 1000 Ω
 - 4. 20 Ω

Question ID : 630680504141
Option 1 ID : 6306801970125
Option 2 ID : 6306801970126
Option 3 ID : 6306801970127
Option 4 ID : 6306801970128
Status : Not Answered
Chosen Option : --



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Q.82 In order to prevent creeping in an energy meter, which of the following measures is adopted?

- Ans
- 1. Two, diametrically opposite holes are drilled on the aluminium disc.
 - 2. Two, diametrically opposite holes are drilled on the central limb.
 - 3. A shading band is provided on the central limb of the shunt magnet.
 - 4. A temperature shunt is used on the brake magnet.

Question ID : 630680509373
Option 1 ID : 6306801990779
Option 2 ID : 6306801990780
Option 3 ID : 6306801990781
Option 4 ID : 6306801990782
Status : Answered
Chosen Option : 2

Q.83 A coil of inductance 10 H and resistance 40 ohm is connected in series with a capacitance and supplied by a source of variable frequency. If the maximum current is found at frequency 1000 rad/sec, then Q-factor of the circuit will be _____.

- Ans
- 1. 25
 - 2. 250
 - 3. 200
 - 4. 100

Question ID : 630680209214
Option 1 ID : 630680811072
Option 2 ID : 630680811071
Option 3 ID : 630680811074
Option 4 ID : 630680811073
Status : Not Answered
Chosen Option : --

Q.84 The receiving end voltage of a radial distribution network is 24 kV. What will be the sending end voltage, if the voltage drop is calculated 25% of receiving end voltage?

- Ans
- 1. 36 kV
 - 2. 30 kV
 - 3. 18 kV
 - 4. 32 kV

Question ID : 630680503848
Option 1 ID : 6306801968956
Option 2 ID : 6306801968954
Option 3 ID : 6306801968953
Option 4 ID : 6306801968955
Status : Answered
Chosen Option : 2



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Q.85 To prevent rusting in electric iron, the plates of the bottom surface and edges are made of _____.

- Ans
- 1. mica
 - 2. heavy iron
 - 3. asbestos
 - 4. heavy chromium

Question ID : 630680504256
Option 1 ID : 6306801970585
Option 2 ID : 6306801970587
Option 3 ID : 6306801970586
Option 4 ID : 6306801970588
Status : Answered
Chosen Option : 1

Q.86 How does the load factor impact the cost of a unit (kWh) of electricity?

- Ans
- 1. Load factor only affects the demand charges, not the generation costs.
 - 2. Higher load factor leads to lower generation costs per unit.
 - 3. Higher load factor leads to higher generation costs per unit.
 - 4. Load factor has no impact on the generation costs per unit.

Question ID : 630680374432
Option 1 ID : 6306801458910
Option 2 ID : 6306801458908
Option 3 ID : 6306801458907
Option 4 ID : 6306801458909
Status : Answered
Chosen Option : 1

Q.87 Which of the following statement is true regarding End Condenser method used for the performance analysis of medium transmission line?

- Ans
- 1. Line capacitance is lumped at the receiving end during the analysis.
 - 2. Line capacitance is lumped at the sending end during the analysis.
 - 3. Line capacitance is considered distributed parameter during the analysis.
 - 4. Line capacitance is lumped between resistance and Inductance during analysis.

Question ID : 630680503838
Option 1 ID : 6306801968916
Option 2 ID : 6306801968914
Option 3 ID : 6306801968913
Option 4 ID : 6306801968915
Status : Not Answered
Chosen Option : --

Q.88 Which modulation technique is commonly used in power modulators to achieve variable power output?

- Ans
- 1. Delta modulation
 - 2. Pulse-width modulation
 - 3. Frequency modulation
 - 4. Amplitude modulation

Question ID : 630680381594
Option 1 ID : 6306801487310
Option 2 ID : 6306801487309
Option 3 ID : 6306801487307
Option 4 ID : 6306801487308
Status : Answered
Chosen Option : 2



Q.89 Consider the following statements regarding Brushless DC motors and select the correct option.
(i) In Brushless motors, there is a provision of permanent magnets that will rotate around a moving armature.
(ii) The brush-commutator assembly of a conventional DC motor is replaced by an electronic controller in the Brushless DC motors.
(iii) For same kW rating, the Brushless DC motor is less expensive than the Brushed conventional DC motor.

- Ans**
- 1. (i) and (ii) are false
 - 2. Only (ii) is false
 - 3. (ii) and (iii) are false
 - 4. (i) and (iii) are false

Question ID : 630680503375
Option 1 ID : 6306801967082
Option 2 ID : 6306801967084
Option 3 ID : 6306801967083
Option 4 ID : 6306801967081
Status : Answered
Chosen Option : 2

Q.90 In internal wiring estimation, if the connected load is 2 kW and the supply voltage is 240 V, then the maximum load current will be _____.

- Ans**
- 1. 80 A
 - 2. 4.33 A
 - 3. 1.14 A
 - 4. 8.33 A

Question ID : 630680333220
Option 1 ID : 6306801296154
Option 2 ID : 6306801296155
Option 3 ID : 6306801296156
Option 4 ID : 6306801296153
Status : Answered
Chosen Option : 4

Q.91 Which of the following is true for the performance analysis of medium transmission line using end condenser method?

- Ans**
- 1. The voltage across the load is equal to the voltage across the lumped line capacitance.
 - 2. The voltage across the load is higher than the voltage across the each different distributed line capacitance.
 - 3. The voltage across the load is lower than the voltage across the each different distributed line capacitance.
 - 4. The voltage across the load is higher than the voltage across the lumped line capacitance.

Question ID : 630680503837
Option 1 ID : 6306801968912
Option 2 ID : 6306801968909
Option 3 ID : 6306801968910
Option 4 ID : 6306801968911
Status : Not Answered
Chosen Option : --

Q.92 Which of the following factors will NOT affect the selection of a resistor?

- Ans
- 1. Thermal resistivity
 - 2. Frequency range
 - 3. Power rating (in watts)
 - 4. Tolerance

Question ID : 630680504238
Option 1 ID : 6306801970514
Option 2 ID : 6306801970513
Option 3 ID : 6306801970516
Option 4 ID : 6306801970515
Status : Answered
Chosen Option : 2

Q.93 Transmission efficiency of a transmission line increases with the _____.

- Ans
- 1. decrease in power factor and voltage
 - 2. increase in voltage only power factor remains constant
 - 3. increase in power factor but the decrease in voltage
 - 4. increase in power factor and voltage

Question ID : 630680503826
Option 1 ID : 6306801968865
Option 2 ID : 6306801968868
Option 3 ID : 6306801968867
Option 4 ID : 6306801968866
Status : Answered
Chosen Option : 2

Q.94 Which of the following statements are INCORRECT about auxiliary motor starting in synchronous motors?

- A) The function of the auxiliary motor is to run the synchronous motor at a speed less than its synchronous speed.
- B) The rating of the auxiliary motor is much lower than that of the synchronous motor.
- C) This method is used only for loaded synchronous motors.
- D) Auxiliary motor starting is not a commonly used starting method in modern days.

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

Question ID : 630680339335
Option 1 ID : 6306801319909
Option 2 ID : 6306801319911
Option 3 ID : 6306801319910
Option 4 ID : 6306801319912
Status : Not Answered
Chosen Option : --



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Q.95 In the circuit shown here, the 20 V source has an internal resistance of 1 Ω . While the current source is ideal, the value of current I is _____ .

- Ans**
- 1. 10 A
 - 2. 1 A
 - 3. -1 A
 - 4. 5 A

Question ID : 630680209177
Option 1 ID : 630680810926
Option 2 ID : 630680810924
Option 3 ID : 630680810923
Option 4 ID : 630680810925
Status : Answered
Chosen Option : 3

Q.96 In a parallel resonant circuit, the input impedance of the circuit is _____ .

- Ans**
- 1. maximum
 - 2. zero
 - 3. infinite
 - 4. minimum

Question ID : 630680504470
Option 1 ID : 6306801971441
Option 2 ID : 6306801971443
Option 3 ID : 6306801971444
Option 4 ID : 6306801971442
Status : Answered
Chosen Option : 4

Q.97 Two inductively coupled coils have self-inductance $L_1=20\text{H}$ and $L_2=320\text{H}$. Find the maximum possible mutual inductance between the coils.

- Ans**
- 1. 80 H
 - 2. 40 H
 - 3. 100 H
 - 4. 10 H

Question ID : 630680504195
Option 1 ID : 6306801970343
Option 2 ID : 6306801970341
Option 3 ID : 6306801970342
Option 4 ID : 6306801970344
Status : Not Answered
Chosen Option : --



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Q.98 In a brake test, the DC motor took 20 A from a 200 V supply mains. The brake pulley of radius 10 cm had an effective load of 20 kg and the speed was 10 rps. The value of BHP (in metric) is _____.

- Ans
- 1. 1.3π
 - 2. 8.8π
 - 3. 0.5π
 - 4. 0.2π

Question ID : 630680503373
Option 1 ID : 6306801967075
Option 2 ID : 6306801967076
Option 3 ID : 6306801967074
Option 4 ID : 6306801967073
Status : Not Answered
Chosen Option : --

Q.99 Which of the following is NOT correct with reference to delta-star type distribution transformers application?

- Ans
- 1. In delta-star type transformer, secondary voltage is in phase with the primary voltages.
 - 2. In delta-star type transformer, no distortion is produced by third harmonic components.
 - 3. In delta-star type transformer, large, unbalanced loads can be handled without any difficulty.
 - 4. In delta-star type transformer, fault protection is one of the primary advantages.

Question ID : 630680380949
Option 1 ID : 6306801484783
Option 2 ID : 6306801484786
Option 3 ID : 6306801484785
Option 4 ID : 6306801484784
Status : Not Answered
Chosen Option : --

Q.100 In magnetism, the measure of the ease with which magnetic flux can pass through a material is called _____.

- Ans
- 1. permeance
 - 2. reluctance
 - 3. MMF
 - 4. flux density

Question ID : 630680504228
Option 1 ID : 6306801970475
Option 2 ID : 6306801970474
Option 3 ID : 6306801970473
Option 4 ID : 6306801970476
Status : Answered
Chosen Option : 3

