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Junior Engineer Civil Mechanical and Electrical Examination 2023 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	11/10/2023
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2023 Electrical Paper I

Section : **General Intelligence and Reasoning**

Q.1 **Select the option that represents the correct order of the given words as they would appear in an English dictionary.**
1. Magnification
2. Magnitude
3. Magnet
4. Maid
5. Magic

Ans
✗ 1. 5, 3, 2, 1, 4
✓ 2. 5, 3, 1, 2, 4
✗ 3. 5, 3, 1, 4, 2
✗ 4. 5, 1, 3, 2, 4

Question ID : **264330129552**
Option 1 ID : **264330507575**
Option 2 ID : **264330507576**
Option 3 ID : **264330507574**
Option 4 ID : **264330507577**
Status : **Answered**
Chosen Option : **3**

Q.2 **Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.**
42 : 12 :: 77 : ? :: 91 : 19

Ans
✗ 1. 15
✗ 2. 19
✓ 3. 17
✗ 4. 14

Question ID : **264330126048**
Option 1 ID : **264330493866**
Option 2 ID : **264330493867**
Option 3 ID : **264330493864**
Option 4 ID : **264330493865**
Status : **Not Answered**
Chosen Option : **--**

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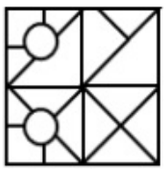
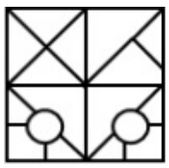
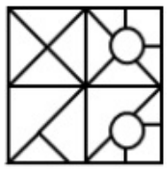
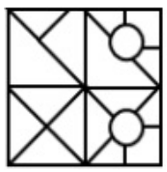
Q.3 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

✔ 1. 

✘ 2. 

✘ 3. 

✘ 4. 

Question ID : **264330126088**
Option 1 ID : **264330494027**
Option 2 ID : **264330494026**
Option 3 ID : **264330494025**
Option 4 ID : **264330494024**
Status : **Answered**
Chosen Option : **1**

Q.4 Which of the following numbers will replace the question marks (?) in the given series?
112, 113, 117, ?, 142, 167, ?, 252, 316

Ans
✘ 1. 132, 214
✘ 2. 133, 215
✘ 3. 122, 224
✔ 4. 126, 203

Question ID : **26433096015**
Option 1 ID : **264330376831**
Option 2 ID : **264330376830**
Option 3 ID : **264330376829**
Option 4 ID : **264330376832**
Status : **Answered**
Chosen Option : **4**

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Q.5 Select the option that indicates the correct arrangement of the given words in a logical and meaningful order.
1. Deer
2. Elephant
3. Mouse
4. Jackal
5. Cat

Ans
✔ 1. 3, 5, 4, 1, 2
✘ 2. 4, 5, 1, 2, 3
✘ 3. 5, 1, 3, 4, 2
✘ 4. 2, 5, 1, 3, 4

Question ID : **26433074674**
Option 1 ID : **264330292785**
Option 2 ID : **264330292784**
Option 3 ID : **264330292786**
Option 4 ID : **264330292787**
Status : **Answered**
Chosen Option : **1**

Q.6 Which of the following numbers will replace the question mark (?) in the given series?

47, 41, 53, ?, 59, 29

Ans
✔ 1. 35
✘ 2. 55
✘ 3. 57
✘ 4. 39

Question ID : **26433091014**
Option 1 ID : **264330357465**
Option 2 ID : **264330357467**
Option 3 ID : **264330357468**
Option 4 ID : **264330357466**
Status : **Answered**
Chosen Option : **1**

Q.7 In a certain code language, "XPCF" is written as "WOBE" and "LRVA" is written as "KQUZ". How will "BMWG" be written in that language?

Ans
✘ 1. ANWG
✘ 2. BMWH
✔ 3. ALVF
✘ 4. AMVH

Question ID : **264330130328**
Option 1 ID : **264330510424**
Option 2 ID : **264330510425**
Option 3 ID : **264330510426**
Option 4 ID : **264330510423**
Status : **Answered**
Chosen Option : **3**

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Q.8 **In the following statements A, B, C, D and E denotes +, − , x , ÷ and = respectively, then which of the statement is correct?**

Ans
✗ 1. 4A3B5D3E15C6

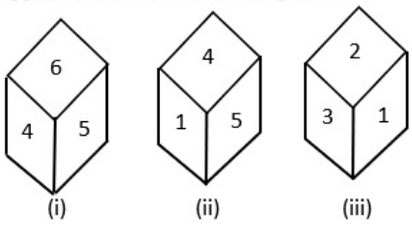
✗ 2. 4A3C6D3E15B6

✓ 3. 4A3C5D3E15B6

✗ 4. 4A3C5D3E15B8

Question ID : **264330129645**
Option 1 ID : **264330507947**
Option 2 ID : **264330507948**
Option 3 ID : **264330507949**
Option 4 ID : **264330507946**
Status : **Answered**
Chosen Option : **3**

Q.9 Three different positions of the same dice are shown. Find the number on the face opposite to the face showing '6'.



(i) (ii) (iii)

Ans
✗ 1. 2

✗ 2. 4

✓ 3. 1

✗ 4. 3

Question ID : **264330102495**
Option 1 ID : **264330402411**
Option 2 ID : **264330402410**
Option 3 ID : **264330402409**
Option 4 ID : **264330402412**
Status : **Answered**
Chosen Option : **2**

Q.10 **Select the option that is related to the third word in the same way as the second word is related to the first word. (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)**

Timid : Bold :: Aggressive : ?

Ans
✗ 1. Brave

✓ 2. Docile

✗ 3. Violent

✗ 4. Indifferent

Question ID : **264330144591**
Option 1 ID : **264330566620**
Option 2 ID : **264330566621**
Option 3 ID : **264330566619**
Option 4 ID : **264330566622**
Status : **Answered**
Chosen Option : **2**

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Q.11 Sonia starts walking from her home and goes 7 m east. From there she turns right and walks a certain distance called P m. Then, she turns left and walks 5 m, now she turns left again and walks 8 m. After that she takes another left turn and walks 12 m. If Sonia's current position is 22 m south of her home, then what is the value of P?

Ans
✗ 1. 28
✗ 2. 22
✗ 3. 34
✓ 4. 30

Question ID : **264330129774**
Option 1 ID : **264330508329**
Option 2 ID : **264330508327**
Option 3 ID : **264330508330**
Option 4 ID : **264330508328**
Status : **Answered**
Chosen Option : **4**

Q.12 In a code language, 'BROWN' is coded as CTRUM and 'ENTER' is coded as FPWCQ . How will 'NOISE' be coded in the same language?

Ans
✗ 1. OQMPD
✗ 2. OQLPD
✗ 3. OPKQD
✓ 4. OQLQD

Question ID : **264330139459**
Option 1 ID : **264330546268**
Option 2 ID : **264330546269**
Option 3 ID : **264330546270**
Option 4 ID : **264330546267**
Status : **Answered**
Chosen Option : **4**

Q.13 If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
22 B 13 C 120 D 30 A 42 = ?

Ans
✓ 1. 324
✗ 2. 342
✗ 3. 352
✗ 4. 325

Question ID : **264330129789**
Option 1 ID : **264330508388**
Option 2 ID : **264330508389**
Option 3 ID : **264330508387**
Option 4 ID : **264330508390**
Status : **Answered**
Chosen Option : **1**

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Q.14 **Six friends are sitting in a circle. All of them are facing the centre. Samir is an immediate neighbour of Kiran. Gagan is an immediate neighbour of Pran and Vyom. Suman sits second to the right of Gagan. Kiran sits second to the right of Vyom.**

Who sits fourth to the left of Vyom?

Ans

✗ 1. Pran

✗ 2. Samir

✗ 3. Suman

✓ 4. Kiran

Question ID : **264330144638**
Option 1 ID : **264330566810**
Option 2 ID : **264330566809**
Option 3 ID : **264330566807**
Option 4 ID : **264330566808**
Status : **Answered**
Chosen Option : **4**

Q.15 **Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.**

R_JK_H_QJ_I_R_JK_H_QJ_IH

Ans

✗ 1. QJKRHQIRK

✗ 2. QJRKQHIRK

✓ 3. QIRKHQIRK

✗ 4. QJRKHQRIK

Question ID : **264330144514**
Option 1 ID : **264330566311**
Option 2 ID : **264330566312**
Option 3 ID : **264330566314**
Option 4 ID : **264330566313**
Status : **Answered**
Chosen Option : **3**

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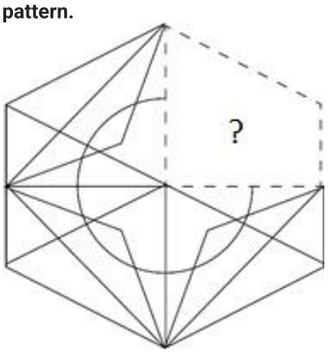
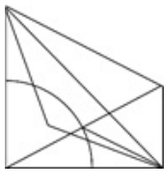
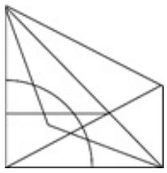
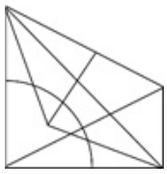
Q.16 Select the figure from the options that can replace the question mark (?) and complete the pattern.

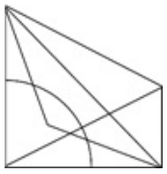


Ans

✗ 1.


✗ 2.


✗ 3.


✓ 4.


Question ID : **26433092791**
Option 1 ID : **264330364455**
Option 2 ID : **264330364454**
Option 3 ID : **264330364453**
Option 4 ID : **264330364456**
Status : **Answered**
Chosen Option : **2**

Q.17 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

S_T_XW_UT_X_S_TV_WS_ _VX_

Ans
✗ 1. UVSVUWXUTW
✗ 2. VUSVWUUXTW
✓ 3. UVSVWUXUTW
✗ 4. VUSVUWXUTW

Question ID : **264330144515**
Option 1 ID : **264330566315**
Option 2 ID : **264330566316**
Option 3 ID : **264330566317**
Option 4 ID : **264330566318**
Status : **Answered**
Chosen Option : **3**

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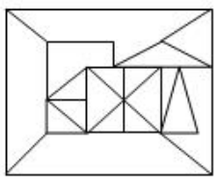
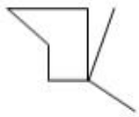
Q.18 **Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).**



Ans

✔ 1. 

✘ 2.

✘ 3.

✘ 4.

Question ID : **264330144784**
Option 1 ID : **264330567393**
Option 2 ID : **264330567391**
Option 3 ID : **264330567394**
Option 4 ID : **264330567392**
Status : **Answered**
Chosen Option : **1**

Q.19 **Select the option that is related to the third word in the same way as the second word is related to the first word. (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)**

Metal : Ore :: Jewelry : ?

Ans

✘ 1. Expensive

✘ 2. Gold smith

✘ 3. Necklace

✔ 4. Gold

Question ID : **264330144530**
Option 1 ID : **264330566378**
Option 2 ID : **264330566375**
Option 3 ID : **264330566376**
Option 4 ID : **264330566377**
Status : **Answered**
Chosen Option : **4**

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Q.20 Each of the seven friends, Kirti, Siya, Amita, Preeti, Deepika, Jeet and Pari, has scored different marks in an exam. Pari has scored more than Kirti but less than Siya. Deepika has scored less than Preeti but more than Amita. Kirti has scored more than Preeti but less than Pari. Siya is not the highest scorer.

Who has scored the highest marks?

Ans
✗ 1. Pari
✗ 2. Preeti
✓ 3. Jeet
✗ 4. Amita

Question ID : **264330144634**
Option 1 ID : **264330566793**
Option 2 ID : **264330566791**
Option 3 ID : **264330566794**
Option 4 ID : **264330566792**
Status : **Answered**
Chosen Option : **3**

Q.21 Select the number from among the given options that can replace the question mark (?) in the following series.
1, 6, 13, 26, 51, 96, ?

Ans
✗ 1. 108
✓ 2. 171
✗ 3. 118
✗ 4. 180

Question ID : **26433079006**
Option 1 ID : **264330310030**
Option 2 ID : **264330310029**
Option 3 ID : **264330310028**
Option 4 ID : **264330310031**
Status : **Answered**
Chosen Option : **2**

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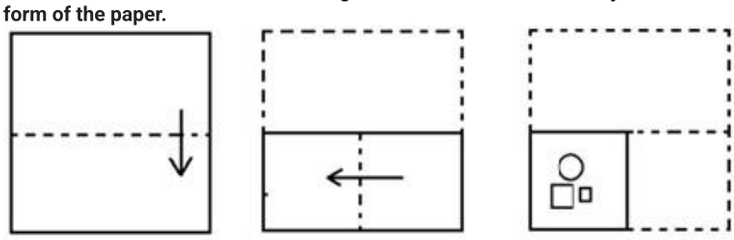
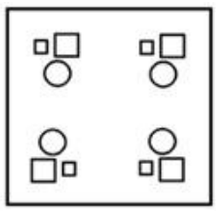
Q.22 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose a figure which would most closely resemble the unfolded form of the paper.

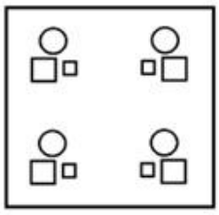


Ans

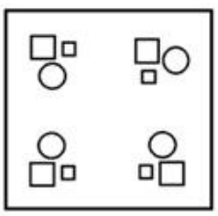
✗ 1.



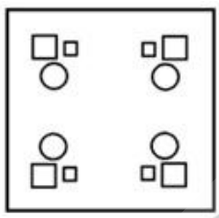
✗ 2.



✗ 3.



✓ 4.



Question ID : **264330103212**
Option 1 ID : **264330405154**
Option 2 ID : **264330405156**
Option 3 ID : **264330405155**
Option 4 ID : **264330405153**
Status : **Answered**
Chosen Option : **4**

Q.23 In a certain code language, 'CRAZE' is written as '87' and 'MAIZE' is written as '86'. How will 'DEPART' be written in that language?

Ans

✗ 1. 95

✗ 2. 90

✗ 3. 110

✓ 4. 104

Question ID : **264330144556**
Option 1 ID : **264330566480**
Option 2 ID : **264330566481**
Option 3 ID : **264330566482**
Option 4 ID : **264330566479**
Status : **Answered**
Chosen Option : **2**

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Q.24 If '+' means '÷', '–' means '+', '×' means '–', and '÷' means '×', then what will be the value of the following expression?
[{(25 × 16) - (3 ÷ 2)} + (3 - 2)] ÷ 5

Ans
✗ 1. 18
✓ 2. 15
✗ 3. 20
✗ 4. 10

Question ID : **264330131558**
Option 1 ID : **264330515335**
Option 2 ID : **264330515337**
Option 3 ID : **264330515338**
Option 4 ID : **264330515336**
Status : **Answered**
Chosen Option : **2**

Q.25 In a certain code language, 'SHELF' is coded as '110', and 'TABLE' is coded as '120'. How will 'DESK' be coded in that language?

Ans
✓ 1. 85
✗ 2. 10
✗ 3. 69
✗ 4. 73

Question ID : **264330144598**
Option 1 ID : **264330566648**
Option 2 ID : **264330566647**
Option 3 ID : **264330566649**
Option 4 ID : **264330566650**
Status : **Not Answered**
Chosen Option : **--**

Q.26 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
38 : 555 :: 25 : 360 :: 17 : ?

Ans
✓ 1. 240
✗ 2. 215
✗ 3. 225
✗ 4. 210

Question ID : **26433078880**
Option 1 ID : **264330309535**
Option 2 ID : **264330309533**
Option 3 ID : **264330309534**
Option 4 ID : **264330309532**
Status : **Not Answered**
Chosen Option : **--**

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Q.27 **In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.**

Statements:
Some pens are sharpeners.
Some sharpeners are pencils.
All pencils are erasers.

Conclusions:
I. Some erasers are sharpeners.
II. Some pens are erasers.

Ans
✗ 1. Both conclusions I and II follow.
✓ 2. Only conclusion I follows.
✗ 3. Neither conclusion I nor II follows.
✗ 4. Only conclusion II follows.

Question ID : **264330144578**
Option 1 ID : **264330566569**
Option 2 ID : **264330566567**
Option 3 ID : **264330566570**
Option 4 ID : **264330566568**
Status : **Answered**
Chosen Option : **2**

Q.28 **Which letter cluster will replace the question mark (?) to complete the given series?**

SNR, QQN, OTJ, MWF, ?

Ans
✗ 1. KZC
✗ 2. KYB
✓ 3. KZB
✗ 4. JZC

Question ID : **264330144573**
Option 1 ID : **264330566547**
Option 2 ID : **264330566548**
Option 3 ID : **264330566549**
Option 4 ID : **264330566550**
Status : **Answered**
Chosen Option : **1**

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Q.29 **Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.**

Statements:

Some doctors are scientists.

Some scientists are engineers.

Conclusions:

I. All engineers are doctors.

II. Some doctors are engineers.

Ans

✗ 1. Only conclusion I follows

✓ 2. Neither conclusion I nor II follows

✗ 3. Both conclusions I and II follow

✗ 4. Only conclusion II follows

Question ID : **264330144950**
Option 1 ID : **264330568055**
Option 2 ID : **264330568058**
Option 3 ID : **264330568057**
Option 4 ID : **264330568056**
Status : **Answered**
Chosen Option : **2**

Q.30 **Select the option that is related to the third word in the same way as the second word is related to the first word. (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)**

Drone : Bee : : Colt : ?

Ans

✗ 1. Cow

✓ 2. Filly

✗ 3. Vixen

✗ 4. Doe

Question ID : **264330144510**
Option 1 ID : **264330566298**
Option 2 ID : **264330566297**
Option 3 ID : **264330566295**
Option 4 ID : **264330566296**
Status : **Answered**
Chosen Option : **2**

Q.31 **G is the brother of F. F is B's daughter. D is A's son and C's brother. B is the brother of C. How is B related to A?**

Ans

✗ 1. Mother

✗ 2. Father's mother

✗ 3. Father

✓ 4. Son

Question ID : **26433089520**
Option 1 ID : **264330351583**
Option 2 ID : **264330351581**
Option 3 ID : **264330351584**
Option 4 ID : **264330351582**
Status : **Answered**
Chosen Option : **4**

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Q.32 Eight people are sitting in two parallel rows with four people each in such a way that there is equal distance between adjacent persons.
In row I – E, F, G and H are seated and all of them are facing south.
In row II – U, V, W and X are seated and all of them are facing north.
G sits exactly opposite U, who sits second from the right end of their row. F sits at the extreme right end of their row and is exactly opposite X. E sits between F and G and is exactly opposite V.
Who sits at the extreme left end of the row of people facing South?

Ans
✗ 1. E
✗ 2. G
✓ 3. H
✗ 4. F

Question ID : **26433068755**
Option 1 ID : **264330269535**
Option 2 ID : **264330269533**
Option 3 ID : **264330269534**
Option 4 ID : **264330269532**
Status : **Answered**
Chosen Option : **3**

Q.33 Sarah departs from her house and walks 20 m towards East. She then turns left and walks 35 m. Now she turns left again and walks 27 m and stops. How far is she from a pole that is exactly 35 m north of her house? (Assuming that all turns are 90 degree turns only.)

Ans
✓ 1. 7 m
✗ 2. 10 m
✗ 3. 12 m
✗ 4. 47 m

Question ID : **264330129769**
Option 1 ID : **264330508308**
Option 2 ID : **264330508309**
Option 3 ID : **264330508310**
Option 4 ID : **264330508307**
Status : **Answered**
Chosen Option : **1**

Q.34 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(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.)

(20, 8, 4)

(12, 3, 6)

Ans
✗ 1. (32, 4, 14)
✗ 2. (44, 2, 24)
✗ 3. (22, 3, 9)
✓ 4. (8, 1, 6)

Question ID : **264330144452**
Option 1 ID : **264330566063**
Option 2 ID : **264330566066**
Option 3 ID : **264330566064**
Option 4 ID : **264330566065**
Status : **Not Answered**
Chosen Option : **--**

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Q.35 **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.)**
Chicken : Strut

Ans
✔ 1. Lion : Prowl
✘ 2. Sparrow : Dive
✘ 3. Mouse : Leap
✘ 4. Deer : Glide

Question ID : **264330132199**
Option 1 ID : **264330517892**
Option 2 ID : **264330517891**
Option 3 ID : **264330517894**
Option 4 ID : **264330517893**
Status : **Answered**
Chosen Option : **1**

Q.36 **Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term?**

16 : 1 :: ? : 3 :: 54 : 2

Ans
✘ 1. 135
✘ 2. 142
✘ 3. 108
✔ 4. 128

Question ID : **264330144458**
Option 1 ID : **264330566089**
Option 2 ID : **264330566088**
Option 3 ID : **264330566087**
Option 4 ID : **264330566090**
Status : **Not Answered**
Chosen Option : **--**

Q.37 **Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.**
784 : 26 :: 961 : ? :: 529 : 21

Ans
✘ 1. 33
✔ 2. 29
✘ 3. 27
✘ 4. 31

Question ID : **26433078938**
Option 1 ID : **264330309767**
Option 2 ID : **264330309765**
Option 3 ID : **264330309766**
Option 4 ID : **264330309764**
Status : **Answered**
Chosen Option : **2**

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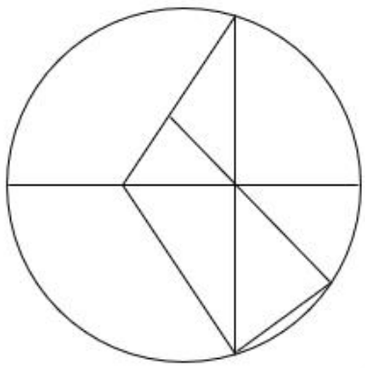
Q.38 **Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.**
1 Cocoon
2 Egg
3 Butterfly
4 Caterpillar

Ans
✗ 1. 2, 3, 1, 4
✓ 2. 2, 4, 1, 3
✗ 3. 2, 4, 3, 1
✗ 4. 2, 1, 3, 4

Question ID : **264330129677**
Option 1 ID : **264330508076**
Option 2 ID : **264330508075**
Option 3 ID : **264330508074**
Option 4 ID : **264330508077**
Status : **Answered**
Chosen Option : **2**

Q.39 How many triangles are there in the given figure?



Ans
✗ 1. 5
✓ 2. 6
✗ 3. 7
✗ 4. 8

Question ID : **26433068139**
Option 1 ID : **264330267070**
Option 2 ID : **264330267069**
Option 3 ID : **264330267068**
Option 4 ID : **264330267071**
Status : **Answered**
Chosen Option : **2**

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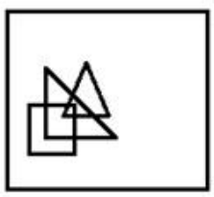
Q.40 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

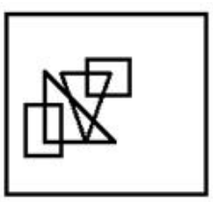
✗ 1.

✗ 2.

✗ 3.



✓ 4.



Question ID : **26433068178**
Option 1 ID : **264330267227**
Option 2 ID : **264330267224**
Option 3 ID : **264330267226**
Option 4 ID : **264330267225**
Status : **Answered**
Chosen Option : **4**

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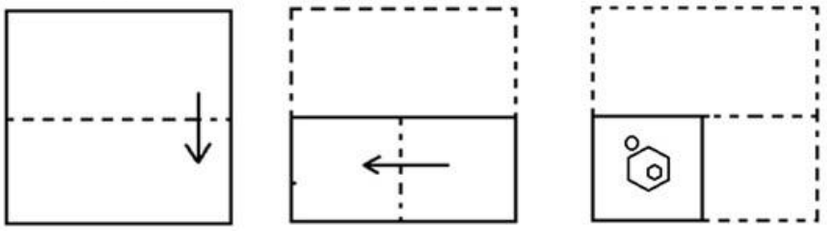
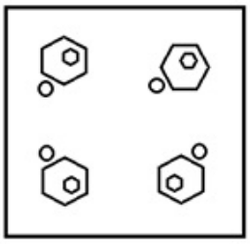
Q.41 **The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose a figure which would most closely resemble the unfolded form of the paper.**

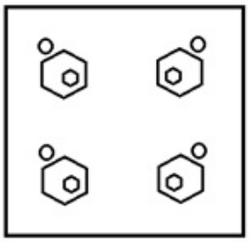


Ans

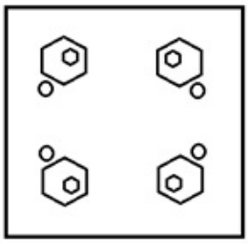
✗ 1.



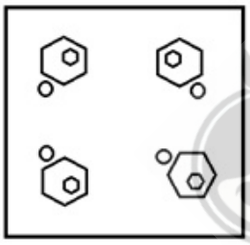
✗ 2.



✓ 3.



✗ 4.



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Question ID : **264330103216**
Option 1 ID : **264330405171**
Option 2 ID : **264330405172**
Option 3 ID : **264330405170**
Option 4 ID : **264330405169**
Status : **Answered**
Chosen Option : **3**

Q.42 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Informer
2. Infested
3. Inferior
4. Infinity
5. Infirmary
6. Inflated

Ans
✔ 1. 3, 2, 4, 5, 6, 1
✘ 2. 2, 3, 4, 5, 1, 6
✘ 3. 3, 2, 5, 4, 6, 1
✘ 4. 2, 3, 4, 5, 6, 1

Question ID : **264330129469**
Option 1 ID : **264330507243**
Option 2 ID : **264330507242**
Option 3 ID : **264330507245**
Option 4 ID : **264330507244**
Status : **Answered**
Chosen Option : **1**

Q.43 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.
Z _ _ O _ _ M Y _ A Z _ Y O A

Ans
✘ 1. A O Z M Y M
✔ 2. M Y A Z O M
✘ 3. Z A M O M Y
✘ 4. Y O M Z A O

Question ID : **26433086963**
Option 1 ID : **264330341493**
Option 2 ID : **264330341494**
Option 3 ID : **264330341496**
Option 4 ID : **264330341495**
Status : **Answered**
Chosen Option : **2**

Q.44 Which letter cluster will replace the question mark (?) to complete the given series?

NGC, PJH, RMM, TPR, ?

Ans
✘ 1. UTY
✔ 2. VSW
✘ 3. USW
✘ 4. VTX

Question ID : **264330144574**
Option 1 ID : **264330566554**
Option 2 ID : **264330566552**
Option 3 ID : **264330566553**
Option 4 ID : **264330566551**
Status : **Answered**
Chosen Option : **2**

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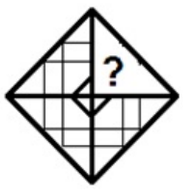
Q.45 **Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)**

Seismograph : Earthquake : : Anemometer : ?

Ans
✗ 1. Light
✗ 2. Humidity
✓ 3. Wind
✗ 4. Current

Question ID : **264330144513**
Option 1 ID : **264330566310**
Option 2 ID : **264330566309**
Option 3 ID : **264330566308**
Option 4 ID : **264330566307**
Status : **Answered**
Chosen Option : **2**

Q.46 Select the figure from the options that can replace the question mark (?) and complete the given pattern.



Ans
✗ 1.
✗ 2.
✓ 3.
✗ 4.

Question ID : **26433074808**
Option 1 ID : **264330293323**
Option 2 ID : **264330293321**
Option 3 ID : **264330293320**
Option 4 ID : **264330293322**
Status : **Answered**
Chosen Option : **3**

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Q.47 If
'Z @ S' means 'Z is the father of S',
'Z * S' means 'Z is the brother of S',
'Z × S' means 'Z is the father's sister of S',
'Z # S' means 'Z is the sister of S',
'Z $ S' means 'Z is the daughter of S', and
'Z = S' means 'Z is the mother of S',
then how is P related to U in the following expression?
P × Q $ R @ S * T $ U

Ans
✗ 1. Daughter

✗ 2. Brother

✗ 3. Brother's son

✓ 4. Husband's sister

Question ID : **264330144539**
Option 1 ID : **264330566411**
Option 2 ID : **264330566412**
Option 3 ID : **264330566413**
Option 4 ID : **264330566414**
Status : **Not Answered**
Chosen Option : --

Q.48 If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
81 D 9 B 3 C 27 = ?

Ans
✗ 1. 216

✗ 2. 9

✗ 3. 3

✓ 4. 0

Question ID : **26433067678**
Option 1 ID : **264330265227**
Option 2 ID : **264330265226**
Option 3 ID : **264330265225**
Option 4 ID : **264330265224**
Status : **Answered**
Chosen Option : **4**

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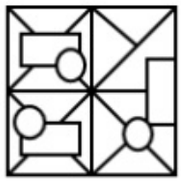
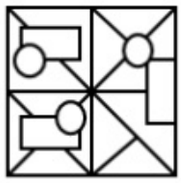
Q.49 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

✗ 1. 

✗ 2. 

✓ 3.

✗ 4.

Question ID : **264330126688**
Option 1 ID : **264330496427**
Option 2 ID : **264330496426**
Option 3 ID : **264330496425**
Option 4 ID : **264330496424**
Status : **Answered**
Chosen Option : **3**

Q.50 उस शब्द-युग्म का चयन करें, जो नीचे दिए गए शब्द-युग्म में व्यक्त किए गए संबंध के समान संबंध को सर्वोत्तम ढंग से निरूपित करता है। (शब्दों को सार्थक शब्द माना जाना चाहिए, और शब्द में अक्षरों की संख्या/व्यंजनों/ स्वरों की संख्या के आधार पर शब्द एक- दूसरे से संबंधित नहीं होने चाहिए।)
भालू (Bear) : नर भालू (Boar)

Ans
✓ 1. चिकन : मुर्गा (Chicken : Rooster)

✗ 2. बैल : गाय (Ox : Cow)

✗ 3. भेड़ : मेमना (Sheep : lamb)

✗ 4. हंस : हंसिनी (Goose : Geese)

Question ID : **264330131984**
Option 1 ID : **264330517034**
Option 2 ID : **264330517032**
Option 3 ID : **264330517033**
Option 4 ID : **264330517031**
Status : **Answered**
Chosen Option : **4**

Section : **General Awareness**

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Q.1 **According to the Census of India 2011, identify the least literate state.**

Ans
✗ 1. Uttar Pradesh
✓ 2. Bihar
✗ 3. Rajasthan
✗ 4. Madhya Pradesh

Question ID : **264330157094**
Option 1 ID : **264330615748**
Option 2 ID : **264330615747**
Option 3 ID : **264330615750**
Option 4 ID : **264330615749**
Status : **Answered**
Chosen Option : **2**

Q.2 **A financial institution can be a banking institution only when it _____.**

Ans
✓ 1. performs both the functions of 'accepting deposits' and 'advancing loans'
✗ 2. performs the function of 'accepting deposits' and not 'advancing loans'
✗ 3. neither performs the function of 'accepting deposits' nor of 'advancing loans'
✗ 4. performs the function of 'advancing loans' and not 'accepting deposits'

Question ID : **264330144408**
Option 1 ID : **264330565889**
Option 2 ID : **264330565887**
Option 3 ID : **264330565890**
Option 4 ID : **264330565888**
Status : **Answered**
Chosen Option : **1**

Q.3 **Which of the following countries is the host of the Asian boxing Championship 2022?**

Ans
✗ 1. Russia
✓ 2. Jordan
✗ 3. Iran
✗ 4. Kazakhstan

Question ID : **264330109715**
Option 1 ID : **264330431140**
Option 2 ID : **264330431137**
Option 3 ID : **264330431138**
Option 4 ID : **264330431139**
Status : **Answered**
Chosen Option : **4**

Q.4 **Burnpur in West Bengal is famous for which of the following industries?**

Ans
✗ 1. Aeronautics industry
✓ 2. Iron and steel industry
✗ 3. Ship building industry
✗ 4. Software industry

Question ID : **264330113270**
Option 1 ID : **264330445166**
Option 2 ID : **264330445165**
Option 3 ID : **264330445167**
Option 4 ID : **264330445168**
Status : **Answered**
Chosen Option : **3**

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Q.5 What is the percentage increase in the total literacy rate in 2011 over 2001?

Ans
✔ 1. 9.21%
✘ 2. 8.67%
✘ 3. 8.99%
✘ 4. 7.90%

Question ID : **264330119815**
Option 1 ID : **264330469538**
Option 2 ID : **264330469537**
Option 3 ID : **264330469536**
Option 4 ID : **264330469535**
Status : **Not Answered**
Chosen Option : **--**

Q.6 Sulochana Chavan is associated with _____ folk music.

Ans
✘ 1. Pandavani
✘ 2. Baul
✔ 3. Lavani Geet
✘ 4. Bihu Geet

Question ID : **26433082117**
Option 1 ID : **264330322304**
Option 2 ID : **264330322302**
Option 3 ID : **264330322301**
Option 4 ID : **264330322303**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Which of following was established in Madras in 1864?

Ans
✘ 1. Arya Mahila Samaj
✘ 2. Singh Sabha Samaj
✘ 3. Brahmo Samaj
✔ 4. Veda Samaj

Question ID : **264330111405**
Option 1 ID : **264330437705**
Option 2 ID : **264330437708**
Option 3 ID : **264330437707**
Option 4 ID : **264330437706**
Status : **Answered**
Chosen Option : **4**

Q.8 The 'PRASHAD' scheme of the Government of India is associated with which ministry of the government?

Ans
✘ 1. Education
✘ 2. Culture
✔ 3. Tourism
✘ 4. Tribal Affairs

Question ID : **264330158456**
Option 1 ID : **264330621184**
Option 2 ID : **264330621183**
Option 3 ID : **264330621186**
Option 4 ID : **264330621185**
Status : **Answered**
Chosen Option : **3**

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Q.9 The Board of Control established to control company affairs had how many members?

Ans
✗ 1. Five
✗ 2. Three
✓ 3. Six
✗ 4. Four

Question ID : **264330112170**
Option 1 ID : **264330440767**
Option 2 ID : **264330440765**
Option 3 ID : **264330440768**
Option 4 ID : **264330440766**
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.10 Which of the following is the correct match of the column-A with column-B?

Column-A (Lake)	Column-B (Continent)
i. Lake Victoria	a. North America
ii. Lake Superior	b. Australia
iii. Caspian Sea	c. Africa
iv. Lake Eyre	d. Asia

Ans
✗ 1. i-d, ii-c, iii-b, iv-a
✗ 2. i-c, ii-d, iii-b, iv-a
✓ 3. i-c, ii-a, iii-d, iv-b
✗ 4. i-c, ii-d, iii-a, iv-b

Question ID : **264330131825**
Option 1 ID : **264330516402**
Option 2 ID : **264330516401**
Option 3 ID : **264330516399**
Option 4 ID : **264330516400**
Status : **Answered**
Chosen Option : **2**

Q.11 Which of the following statements is NOT correct about angiosperms?

Ans
✗ 1. These are also called flowering plants.
✗ 2. Double fertilisation is a characteristic of angiosperms.
✓ 3. These are seedless plants.
✗ 4. These plants have covered seeds.

Question ID : **264330109909**
Option 1 ID : **264330431914**
Option 2 ID : **264330431915**
Option 3 ID : **264330431913**
Option 4 ID : **264330431916**
Status : **Answered**
Chosen Option : **4**

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Q.12 Chhau is a recognised dance form, for which Shashidhar Acharya received the Padma Shri. To which part of the country does this dance form belong?

Ans
✗ 1. Western
✗ 2. Central
✗ 3. Southern
✓ 4. Eastern

Question ID : **26433064800**
Option 1 ID : **264330253794**
Option 2 ID : **264330253795**
Option 3 ID : **264330253793**
Option 4 ID : **264330253792**
Status : **Answered**
Chosen Option : **3**

Q.13 Which of the following Articles of the Indian Constitution mentioned that the Prime Minister is appointed by the President of India?

Ans
✗ 1. 70
✗ 2. 57
✗ 3. 71
✓ 4. 75

Question ID : **264330120160**
Option 1 ID : **264330470898**
Option 2 ID : **264330470896**
Option 3 ID : **264330470897**
Option 4 ID : **264330470895**
Status : **Answered**
Chosen Option : **4**

Q.14 Which of the following articles guarantees that no person shall be punished on the basis of laws enacted after a crime has been committed?

Ans
✗ 1. Article 22
✗ 2. Article 19
✓ 3. Article 20
✗ 4. Article 21

Question ID : **264330112755**
Option 1 ID : **264330443108**
Option 2 ID : **264330443105**
Option 3 ID : **264330443106**
Option 4 ID : **264330443107**
Status : **Answered**
Chosen Option : **4**

Q.15 Which of the following food groups is rich source of Vitamin B12?

Ans
✓ 1. Milk and meat products
✗ 2. Fruits and vegetables
✗ 3. Cereals and grains products
✗ 4. Pulses and legumes

Question ID : **264330113328**
Option 1 ID : **264330445399**
Option 2 ID : **264330445400**
Option 3 ID : **264330445397**
Option 4 ID : **264330445398**
Status : **Answered**
Chosen Option : **3**

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Q.16 **Which of the following is Mohr's salt, used in analytical chemistry as a preferred source of ferrous ions?**

Ans
✗ 1. $FeC_2O_4 \cdot 6H_2O$

✗ 2. $C_4H_2FeO_4.6H_2O$

✗ 3. $K_4[Fe(CN)_6].6H_2O$

✓ 4. $FeSO_4.(NH_4)_2SO_4.6H_2O$

Question ID : **264330133267**
Option 1 ID : **264330522118**
Option 2 ID : **264330522117**
Option 3 ID : **264330522116**
Option 4 ID : **264330522115**
Status : **Answered**
Chosen Option : **3**

Q.17 **Identify the INCORRECT statement about fermentation.**

Ans
✓ 1. Fermentation occurs only in fungal cells.

✗ 2. The fermentation technique is used to make breads.

✗ 3. It is the process of breaking down sugar into alcohol.

✗ 4. Yeast is used in fermentation technology to prepare alcohol.

Question ID : **264330109936**
Option 1 ID : **264330432024**
Option 2 ID : **264330432022**
Option 3 ID : **264330432021**
Option 4 ID : **264330432023**
Status : **Answered**
Chosen Option : **1**

Q.18 **Which of the following food additives are helpful to combine products containing immiscible food ingredients, such as oil and water, with one another?**

Ans
✗ 1. Food sweeteners

✗ 2. Food preservatives

✗ 3. Food stabilisers

✓ 4. Food emulsifiers

Question ID : **264330112840**
Option 1 ID : **264330443447**
Option 2 ID : **264330443448**
Option 3 ID : **264330443445**
Option 4 ID : **264330443446**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

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Q.19 In June 2022, who among the following took an oath as Delhi High Court Chief Justice?

Ans
✗ 1. Justice Dhirubhai Naranbhai Patel
✗ 2. Justice Vipin Sanghi
✗ 3. Justice Sanjay Karol
✓ 4. Justice Satish Chandra Sharma

Question ID : **264330137299**
Option 1 ID : **264330537823**
Option 2 ID : **264330537824**
Option 3 ID : **264330537826**
Option 4 ID : **264330537825**
Status : **Not Answered**
Chosen Option : --

Q.20 Which is the least populated state according to the census of 2011?

Ans
✗ 1. Arunachal Pradesh
✗ 2. Nagaland
✓ 3. Sikkim
✗ 4. Tripura

Question ID : **264330119239**
Option 1 ID : **264330467246**
Option 2 ID : **264330467245**
Option 3 ID : **264330467243**
Option 4 ID : **264330467244**
Status : **Marked For Review**
Chosen Option : **2**

Q.21 Which is a circular basin covering an area of 5.427 million square miles surrounded by North America and Eurasia?

Ans
✗ 1. Indian Ocean
✗ 2. Atlantic Ocean
✗ 3. Pacific Ocean
✓ 4. Arctic Ocean

Question ID : **264330110205**
Option 1 ID : **264330433097**
Option 2 ID : **264330433098**
Option 3 ID : **264330433100**
Option 4 ID : **264330433099**
Status : **Not Answered**
Chosen Option : --

Q.22 Domingo Paes was a _____ traveller, who visited the Vijayanagara empire in the 16th century.

Ans
✗ 1. Spanish
✓ 2. Portuguese
✗ 3. Italian
✗ 4. Russian

Question ID : **26433089875**
Option 1 ID : **264330352979**
Option 2 ID : **264330352978**
Option 3 ID : **264330352980**
Option 4 ID : **264330352977**
Status : **Not Answered**
Chosen Option : --

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Q.23 What was the motto of the National Games of India 2022?

Ans
✗ 1. Celebrating sports through unity
✗ 2. Celebrating brotherhood through sports
✓ 3. Celebrating unity through sports
✗ 4. Celebrating diversity through sports

Question ID : **264330119249**
Option 1 ID : **264330467283**
Option 2 ID : **264330467286**
Option 3 ID : **264330467285**
Option 4 ID : **264330467284**
Status : **Answered**
Chosen Option : **2**

Q.24 Which of the following statements is INCORRECT about vinegar?

Ans
✗ 1. Vinegar is a combination of acetic acid and water.
✗ 2. It can be used as a food preservative.
✓ 3. It is a combination of acetic acid and formic acid.
✗ 4. It is produced by 2-step fermentation.

Question ID : **264330112841**
Option 1 ID : **264330443450**
Option 2 ID : **264330443449**
Option 3 ID : **264330443452**
Option 4 ID : **264330443451**
Status : **Answered**
Chosen Option : **4**

Q.25 In order to claim the accumulation of income, trusts or charitable institutions must file Form 9A and Form 10 at least _____ prior to the deadline for filing the return of income as per Finance Bill 2023.

Ans
✗ 1. 1 month
✗ 2. 3 months
✗ 3. 6 months
✓ 4. 2 months

Question ID : **264330156938**
Option 1 ID : **264330615127**
Option 2 ID : **264330615128**
Option 3 ID : **264330615129**
Option 4 ID : **264330615130**
Status : **Not Answered**
Chosen Option : **--**

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Q.26 What work was published by John Dalton in 1808 that provided a physical picture of how elements combine to form compounds and an unprecedented reason to believe that atoms exist?

Ans
✗ 1. Introduction to the Study of Chemical Philosophy
✗ 2. Lessons in Chemical Philosophy
✓ 3. A New System of Chemical Philosophy
✗ 4. From Chemical Philosophy to Theoretical Chemistry

Question ID : **264330141678**
Option 1 ID : **264330555033**
Option 2 ID : **264330555034**
Option 3 ID : **264330555032**
Option 4 ID : **264330555031**
Status : **Answered**
Chosen Option : **4**

Q.27 What architecture is the famous black pagoda temple situated in Konark?

Ans
✗ 1. Gadaga architecture
✗ 2. Champa architecture
✓ 3. Kalinga architecture
✗ 4. Dravid architecture

Question ID : **26433072659**
Option 1 ID : **264330284896**
Option 2 ID : **264330284898**
Option 3 ID : **264330284897**
Option 4 ID : **264330284899**
Status : **Answered**
Chosen Option : **4**

Q.28 Which are the two most common minerals found in rocks?

Ans
✗ 1. Bauxite and Calcite
✗ 2. Mica and calcite
✓ 3. Feldspar and quartz
✗ 4. Amphibole and olivine

Question ID : **264330135591**
Option 1 ID : **264330531266**
Option 2 ID : **264330531263**
Option 3 ID : **264330531265**
Option 4 ID : **264330531264**
Status : **Answered**
Chosen Option : **1**

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Q.29 **The salaries and allowances of the Speaker and the Deputy Speaker of the Legislative Assembly and Chairman and Deputy Chairman of the State Legislative Council are fixed by the _____.**

Ans
✗ 1. Chief Minister
✗ 2. Governor of the State
✗ 3. State Cabinet
✓ 4. State legislature

Question ID : **264330130496**
Option 1 ID : **264330511097**
Option 2 ID : **264330511095**
Option 3 ID : **264330511098**
Option 4 ID : **264330511096**
Status : **Answered**
Chosen Option : **2**

Q.30 **In which century was the Kuchipudi style of Yakshagaana conceived by Siddhendra Yogi?**

Ans
✗ 1. 16^{th}
✓ 2. 17^{th}
✗ 3. 15^{th}
✗ 4. 14^{th}

Question ID : **26433090715**
Option 1 ID : **264330356283**
Option 2 ID : **264330356284**
Option 3 ID : **264330356282**
Option 4 ID : **264330356281**
Status : **Not Answered**
Chosen Option : **--**

Q.31 **Which of the following is a hydroxybenzaldehyde that possesses a hydroxy substituent at position 2 extracted from the herb 'meadow sweet'?**

Ans
✓ 1. Salicylaldehyde
✗ 2. Cinnamaldehyde
✗ 3. Acetaldehyde
✗ 4. Formaldehyde

Question ID : **264330114591**
Option 1 ID : **264330450452**
Option 2 ID : **264330450451**
Option 3 ID : **264330450450**
Option 4 ID : **264330450449**
Status : **Not Answered**
Chosen Option : **--**

Q.32 **In September 2022, who among the following was elected as President of Hockey India?**

Ans
✗ 1. Harmanpreet Singh
✗ 2. Dhanraj Pillay
✓ 3. Dilip Tirkey
✗ 4. Surender Kumar

Question ID : **264330133014**
Option 1 ID : **264330521114**
Option 2 ID : **264330521111**
Option 3 ID : **264330521113**
Option 4 ID : **264330521112**
Status : **Answered**
Chosen Option : **2**

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Q.33 Who used to supervise the work of collection of revenue in the Mauryan Kingdom?

Ans
✗ 1. Sannidhata
✗ 2. Rajuka
✓ 3. Samaharta
✗ 4. Prativedak

Question ID : **264330112135**
Option 1 ID : **264330440626**
Option 2 ID : **264330440627**
Option 3 ID : **264330440625**
Option 4 ID : **264330440628**
Status : **Answered**
Chosen Option : **2**

Q.34 How can using templates benefit users when creating a PowerPoint presentation?

Ans
✗ 1. Templates enable real-time collaboration with multiple users.
✗ 2. Templates automatically generate slide content and animations.
✓ 3. Templates provide a consistent design and save time in formatting.
✗ 4. Templates allow users to insert audio and video clips into slides.

Question ID : **264330168589**
Option 1 ID : **264330661167**
Option 2 ID : **264330661168**
Option 3 ID : **264330661169**
Option 4 ID : **264330661170**
Status : **Answered**
Chosen Option : **4**

Q.35 Which of the following groups of rivers is placed in the correct sequence from north to south of the Peninsular River?

Ans
✓ 1. Mahanadi-Godavari-Krishna-Kaveri
✗ 2. Godavari-Mahanadi-Krishna-Kaveri
✗ 3. Godavari-Krishna-Kaveri-Mahanadi
✗ 4. Godavari-Krishna-Mahanadi-Kaveri

Question ID : **264330132727**
Option 1 ID : **264330520004**
Option 2 ID : **264330520003**
Option 3 ID : **264330520006**
Option 4 ID : **264330520005**
Status : **Marked For Review**
Chosen Option : **4**

Q.36 The idea of Fundamental Duties has been borrowed from the Constitution of:

Ans
✓ 1. USSR
✗ 2. Ireland
✗ 3. The UK
✗ 4. The US

Question ID : **26433089956**
Option 1 ID : **264330353304**
Option 2 ID : **264330353302**
Option 3 ID : **264330353301**
Option 4 ID : **264330353303**
Status : **Marked For Review**
Chosen Option : **1**

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Q.37 **Which option allows you to import recipient addresses from a spreadsheet when creating mailing labels in MS Word?**

Ans
✗ 1. Import Data
✓ 2. Mail Merge Wizard
✗ 3. Create Labels
✗ 4. Merge and Print

Question ID : **264330168597**
Option 1 ID : **264330661199**
Option 2 ID : **264330661201**
Option 3 ID : **264330661202**
Option 4 ID : **264330661200**
Status : **Answered**
Chosen Option : **3**

Q.38 **In which state of India is the Bhadla Solar Power Park established?**

Ans
✗ 1. Odisha
✗ 2. Gujarat
✓ 3. Rajasthan
✗ 4. Madhya Pradesh

Question ID : **264330138064**
Option 1 ID : **264330540865**
Option 2 ID : **264330540866**
Option 3 ID : **264330540863**
Option 4 ID : **264330540864**
Status : **Answered**
Chosen Option : **2**

Q.39 **The question consists of two statements, namely, Assertion (A) and Reason (R). Use them to choose the correct alternative.Read the following statements and select the correct alternative**
Assertion (A): Expenditure on interest payment is a capital expenditure
Reason (R): Interest payments neither creates any assets nor causes a reduction in liabilities of the government.

Ans
✗ 1. A is true and R is false
✓ 2. A is false but R is true
✗ 3. Both A and R are true, and R is the correct explanation of A
✗ 4. Both A and R are true, but R is not the correct explanation of A

Question ID : **264330108902**
Option 1 ID : **264330427887**
Option 2 ID : **264330427888**
Option 3 ID : **264330427885**
Option 4 ID : **264330427886**
Status : **Answered**
Chosen Option : **3**

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Q.40 Which of the following connects the continental shelf and the ocean basins?

Ans
✗ 1. Deep sea plains
✗ 2. Seamount
✗ 3. Mid oceanic ridges
✓ 4. Continental slope

Question ID : **264330113363**
Option 1 ID : **264330445539**
Option 2 ID : **264330445537**
Option 3 ID : **264330445540**
Option 4 ID : **264330445538**
Status : **Not Answered**
Chosen Option : **--**

Q.41 Who studied ecological succession in the Indiana Dunes of Northwest Indiana in the 1890s?

Ans
✗ 1. Frederic Clements
✓ 2. Henry Chandler Cowles
✗ 3. G Evelyn Hutchinson
✗ 4. Charles Elton

Question ID : **264330144347**
Option 1 ID : **264330565647**
Option 2 ID : **264330565650**
Option 3 ID : **264330565649**
Option 4 ID : **264330565648**
Status : **Not Answered**
Chosen Option : **--**

Q.42 In which of the following states of India is the legislative assembly election was held in late 2022?

Ans
✗ 1. Karnataka
✗ 2. Rajasthan
✗ 3. Nagaland
✓ 4. Himachal Pradesh

Question ID : **26433090626**
Option 1 ID : **264330355926**
Option 2 ID : **264330355927**
Option 3 ID : **264330355925**
Option 4 ID : **264330355928**
Status : **Answered**
Chosen Option : **1**

Q.43 Which of the following musical instruments was played by Ustad Bismillah Khan on the eve of India's independence in the year 1947?

Ans
✓ 1. Shehnai
✗ 2. Bansuri
✗ 3. Bugle
✗ 4. Sarangi

Question ID : **26433071510**
Option 1 ID : **264330280464**
Option 2 ID : **264330280467**
Option 3 ID : **264330280465**
Option 4 ID : **264330280466**
Status : **Answered**
Chosen Option : **1**

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Q.44 **Which of the following statements is INCORRECT with respect to Special Capital Linked Subsidy Scheme for Service Sector?**

Ans
✗ 1. It was launched from Guwahati.

✓ 2. It has been launched in 2022.

✗ 3. The Ministry of MSME is the implementing ministry for the scheme.

✗ 4. Capital subsidy of 25% will be provided for procurement of Plant & Machinery and service equipment's through institutional credit to the SC-ST MSEs.

Question ID : **264330156914**
Option 1 ID : **264330615033**
Option 2 ID : **264330615031**
Option 3 ID : **264330615032**
Option 4 ID : **264330615034**
Status : **Answered**
Chosen Option : **4**

Q.45 **Which period best defines the period of the first Green Revolution in India?**

Ans
✓ 1. Mid 1960s to early 1980s

✗ 2. Mid 1990s to early 2010s

✗ 3. Mid 1980s to early 1990s

✗ 4. Mid 1950s to early 1960s

Question ID : **264330112900**
Option 1 ID : **264330443686**
Option 2 ID : **264330443688**
Option 3 ID : **264330443687**
Option 4 ID : **264330443685**
Status : **Answered**
Chosen Option : **2**

Q.46 **What is the unemployment rate (in percent) in urban area as per the report of Periodic Labor Force Survey (PLFS) 2020-21?**

Ans
✓ 1. 6.7

✗ 2. 10.8

✗ 3. 4.0

✗ 4. 7.2

Question ID : **264330111357**
Option 1 ID : **264330437513**
Option 2 ID : **264330437516**
Option 3 ID : **264330437515**
Option 4 ID : **264330437514**
Status : **Answered**
Chosen Option : **4**

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Q.47 **According to _____ of the Constitution of India, no person shall be compelled to pay any taxes for the promotion of a particular religion.**

Ans
✗ 1. Article 25
✓ 2. Article 27
✗ 3. Article 28
✗ 4. Article 26

Question ID : **264330130433**
Option 1 ID : **264330510843**
Option 2 ID : **264330510845**
Option 3 ID : **264330510846**
Option 4 ID : **264330510844**
Status : **Answered**
Chosen Option : **2**

Q.48 **Who among the following Bengal Nawabs transferred his capital from Murshidabad to Monghyr?**

Ans
✗ 1. Alivardi Khan
✗ 2. Siraj-ud-Daulah
✓ 3. Mir Kasim
✗ 4. Mir Jafar

Question ID : **264330109054**
Option 1 ID : **264330428496**
Option 2 ID : **264330428494**
Option 3 ID : **264330428493**
Option 4 ID : **264330428495**
Status : **Answered**
Chosen Option : **2**

Q.49 **India's drainage system is divided on the basis of the size of the watershed. Which of the following is NOT a part of the drainage basin of India?**

Ans
✗ 1. Major river basin
✗ 2. Minor river basin
✓ 3. Average river basin
✗ 4. Medium river basin

Question ID : **26433064100**
Option 1 ID : **264330250992**
Option 2 ID : **264330250994**
Option 3 ID : **264330250995**
Option 4 ID : **264330250993**
Status : **Answered**
Chosen Option : **3**

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Q.50 **Acidified $KMnO_4$ can be used:**

Ans

✗ 1. to get alcohol directly from carboxylic acids

✓ 2. to get carboxylic acids directly from alcohol

✗ 3. to get glycerol from glucose

✗ 4. to get formic acid from formaldehyde

Question ID : **264330118019**
Option 1 ID : **264330463892**
Option 2 ID : **264330463891**
Option 3 ID : **264330463894**
Option 4 ID : **264330463893**
Status : **Not Answered**
Chosen Option : **--**

Section : **General Engineering Electrical**

Q.1 **Which of the following CANNOT be caused due to excessive voltage drop in an electric distribution system?**

Ans

✗ 1. Electric lights to burn dimly

✗ 2. Electriclights to flicker

✓ 3. Electric motors to run colder than normal

✗ 4. Electric heaters to heat poorly

Question ID : **264330158086**
Option 1 ID : **264330619705**
Option 2 ID : **264330619704**
Option 3 ID : **264330619706**
Option 4 ID : **264330619703**
Status : **Answered**
Chosen Option : **4**

Q.2 **What is the apparent power of a 3-phase, star-connected system with a line voltage of 200 V and a line current of 20 A? The phase difference between the voltage and the current is 36.87°.**

Ans

✗ 1. 5.928 kVA

✗ 2. 8.928 kVA

✓ 3. 6.928 kVA

✗ 4. 7.928 kVA

Question ID : **264330159517**
Option 1 ID : **264330625430**
Option 2 ID : **264330625429**
Option 3 ID : **264330625427**
Option 4 ID : **264330625428**
Status : **Not Answered**
Chosen Option : **--**

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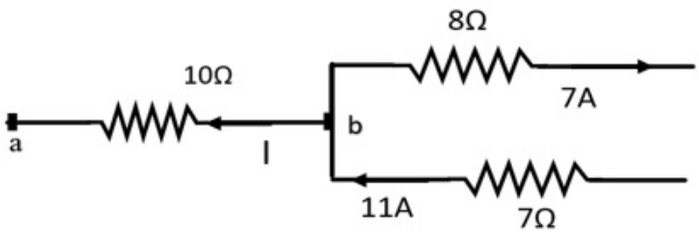
Q.3 The value of voltage V_{ab} in the figure shown below is:



Ans
✗ 1. 0 V
✓ 2. -40 V
✗ 3. 40 V
✗ 4. -190 V

Question ID : **26433096450**
Option 1 ID : **264330378540**
Option 2 ID : **264330378537**
Option 3 ID : **264330378539**
Option 4 ID : **264330378538**
Status : **Not Answered**
Chosen Option : --

Q.4 **Find the ripple frequency of half wave rectifier if the input operating frequency is 50 Hz.**

Ans
✓ 1. 50 Hz
✗ 2. 500 Hz
✗ 3. 100 Hz
✗ 4. 25 Hz

Question ID : **26433098261**
Option 1 ID : **264330385698**
Option 2 ID : **264330385700**
Option 3 ID : **264330385697**
Option 4 ID : **264330385699**
Status : **Not Answered**
Chosen Option : --

Q.5 **_____ is the money put down in addition to the tender.**

Ans
✗ 1. True money
✗ 2. Exploit money
✓ 3. Earnest money
✗ 4. Deposit money

Question ID : **264330158158**
Option 1 ID : **264330619993**
Option 2 ID : **264330619994**
Option 3 ID : **264330619991**
Option 4 ID : **264330619992**
Status : **Not Answered**
Chosen Option : --

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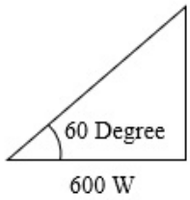
Q.6 What will be the reactive power in the given power triangle?



Ans
✔ 1. 1039 VAR Lagging
✘ 2. 1200 VAR Lagging
✘ 3. 1039 VAR Leading
✘ 4. 1200 VAR Leading

Question ID : **26433098291**
Option 1 ID : **264330385818**
Option 2 ID : **264330385820**
Option 3 ID : **264330385817**
Option 4 ID : **264330385819**
Status : **Answered**
Chosen Option : **4**

Q.7 **In the split-phase induction motor, the starting torque of the resistance start motor is about _____ the full load torque.**

Ans
✘ 1. 150 times
✘ 2. 15 times
✔ 3. 1.5 times
✘ 4. 0.15 times

Question ID : **264330164888**
Option 1 ID : **264330646682**
Option 2 ID : **264330646681**
Option 3 ID : **264330646680**
Option 4 ID : **264330646679**
Status : **Not Answered**
Chosen Option : **--**

Q.8 **What is the purpose of laminating the core of a transformer?**

Ans
✘ 1. To increase the eddy current loss
✘ 2. To make the core heavier
✔ 3. To minimise the eddy current loss
✘ 4. To induce eddy current loss

Question ID : **264330162922**
Option 1 ID : **264330639004**
Option 2 ID : **264330639006**
Option 3 ID : **264330639005**
Option 4 ID : **264330639003**
Status : **Answered**
Chosen Option : **3**

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Q.9 **The permanent magnet synchronous motor has a configuration almost identical to the conventional synchronous machine with the absence of _____.**

Ans
✗ 1. field winding and rotating magnetic field
✓ 2. field winding and slip ring
✗ 3. stationary magnetic field
✗ 4. air gap between stator and rotor

Question ID : **264330164862**
Option 1 ID : **264330646576**
Option 2 ID : **264330646575**
Option 3 ID : **264330646577**
Option 4 ID : **264330646578**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.10 **A non-inductive resistor of 50 Ω is connected in series with a coil of inductance 0.25 Henry and of negligible resistance across a 250 V, 50 Hz supply. The net impedance of the circuit is given by 93.07 Ω. Find the value of reactive power.**

Ans
✗ 1. 1091.25 VAR
✓ 2. 567.59 VAR
✗ 3. 1022.14 VAR
✗ 4. 727.5 VAR

Question ID : **26433098294**
Option 1 ID : **264330385832**
Option 2 ID : **264330385831**
Option 3 ID : **264330385829**
Option 4 ID : **264330385830**
Status : **Marked For Review**
Chosen Option : **2**

Q.11 **Power factor of an IM is low at _____.**

Ans
✗ 1. half load
✓ 2. no load
✗ 3. full load
✗ 4. quarter load

Question ID : **26433099606**
Option 1 ID : **264330391039**
Option 2 ID : **264330391038**
Option 3 ID : **264330391037**
Option 4 ID : **264330391040**
Status : **Not Answered**
Chosen Option : **--**

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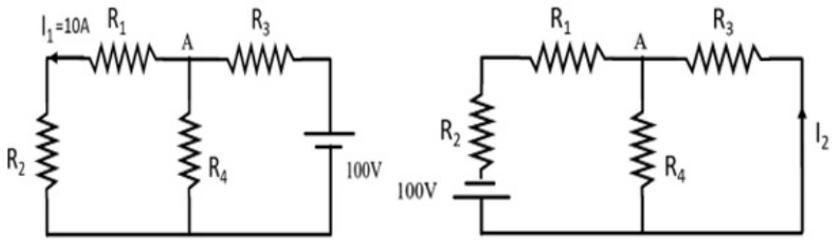
Q.12 The value of the current I_2 if I_1 is equal to 10A, is:



Ans

✗ 1. $\frac{100}{R_3}$ A

✗ 2. 0 A

✗ 3. $\frac{100}{R_2}$ A

✓ 4. 10 A

Question ID : **26433096472**
Option 1 ID : **264330378625**
Option 2 ID : **264330378628**
Option 3 ID : **264330378626**
Option 4 ID : **264330378627**
Status : **Answered**
Chosen Option : **2**

Q.13 **Three identical coils connected in delta to a 415 V, 3-phase supply take a total power of 50 kW and line currents of 70 A. Determine the total kVA taken by the coils.**

Ans

✗ 1. 16.77 kVA

✓ 2. 50.32 kVA

✗ 3. 23.24 kVA

✗ 4. 9.68 kVA

Question ID : **26433096124**
Option 1 ID : **264330377265**
Option 2 ID : **264330377266**
Option 3 ID : **264330377268**
Option 4 ID : **264330377267**
Status : **Not Answered**
Chosen Option : --

Q.14 **The value of a series resistor is required to limit the current through an LED to 36mA with a forward voltage drop of 3V, when connected to a 12V supply.**

Ans

✗ 1. 250 m Ω

✗ 2. 25 Ω

✗ 3. 4000 Ω

✓ 4. 250 Ω

Question ID : **26433096571**
Option 1 ID : **264330379022**
Option 2 ID : **264330379021**
Option 3 ID : **264330379023**
Option 4 ID : **264330379024**
Status : **Not Answered**
Chosen Option : --

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Q.15 In case of electrical energy, the joule is also expressed as the _____.

Ans
✗ 1. newton-second
✗ 2. meter-second
✓ 3. watt-second
✗ 4. joule-second

Question ID : **264330157611**
Option 1 ID : **264330617803**
Option 2 ID : **264330617806**
Option 3 ID : **264330617804**
Option 4 ID : **264330617805**
Status : **Answered**
Chosen Option : **1**

Q.16 In applications such as drink and food mixers and sewing machines _____ is used.

Ans
✗ 1. split-phase IM motor
✓ 2. universal motor
✗ 3. AC series motor
✗ 4. repulsion motor

Question ID : **26433098257**
Option 1 ID : **264330385684**
Option 2 ID : **264330385682**
Option 3 ID : **264330385683**
Option 4 ID : **264330385681**
Status : **Answered**
Chosen Option : **3**

Q.17 Which of the following expressions clearly indicates determination of the diversity factor in a power system?

Ans
✗ 1. $\frac{\text{Average demand}}{\text{Maximum demand of the whole system}}$
✓ 2. $\frac{\text{Sum of Individual maximum demand}}{\text{Maximum demand of the whole system}}$
✗ 3. $\frac{\text{Maximum demand}}{\text{Sum of individual maximum demand}}$
✗ 4. $\frac{\text{Maximum demand of the whole system}}{\text{Sum of individual maximum demand}}$

Question ID : **264330158048**
Option 1 ID : **264330619552**
Option 2 ID : **264330619554**
Option 3 ID : **264330619551**
Option 4 ID : **264330619553**
Status : **Answered**
Chosen Option : **4**

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Q.18 **Which of the following statements is true regarding the voltage drop due to armature reaction for leading power factors in an alternator?**

Ans
✗ 1. The voltage drop increases with an increase in power factor.
✗ 2. The voltage drop remains constant irrespective of the power factor.
✗ 3. The voltage drop is not affected by the power factor.
✓ 4. The voltage drop decreases with an increase in power factor.

Question ID : **264330164896**
Option 1 ID : **264330646711**
Option 2 ID : **264330646713**
Option 3 ID : **264330646714**
Option 4 ID : **264330646712**
Status : **Not Answered**
Chosen Option : **--**

Q.19 **In the application of electrical circuits, the nichrome that is used to make the heating element in an electric cooker has _____.**

Ans
✗ 1. 40% nickel and 60% chromium
✓ 2. 80% nickel and 20% chromium
✗ 3. 50% nickel and 50% chromium
✗ 4. 20% nickel and 80% chromium

Question ID : **264330157597**
Option 1 ID : **264330617750**
Option 2 ID : **264330617749**
Option 3 ID : **264330617748**
Option 4 ID : **264330617747**
Status : **Answered**
Chosen Option : **1**

Q.20 **In electromagnetism, the pattern of the magnetic field in a solenoid is _____.**

Ans
✗ 1. of curved lines
✗ 2. circular
✓ 3. of parallel straight lines
✗ 4. of perpendicular lines

Question ID : **264330157653**
Option 1 ID : **264330617974**
Option 2 ID : **264330617973**
Option 3 ID : **264330617972**
Option 4 ID : **264330617971**
Status : **Answered**
Chosen Option : **1**

Q.21 **Which sort of contract requires contractors to provide individual price quotes for all work to be performed?**

Ans
✗ 1. Schedule rate contract
✗ 2. Lump sum contract
✗ 3. Percentage rate contract
✓ 4. Item rate contract

Question ID : **264330158162**
Option 1 ID : **264330620010**
Option 2 ID : **264330620007**
Option 3 ID : **264330620008**
Option 4 ID : **264330620009**
Status : **Not Answered**
Chosen Option : **--**

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Q.22 **A overhead transmission line is supported by supports at equal levels. If the length of the conductor span is increased by two times, the sag will ____. (Given, weight per unit length and tension in the conductor are constant.)**

Ans

✗ 1. decrease by four times

✗ 2. increase by two times

✗ 3. decrease by two times

✓ 4. increase by four times

Question ID : **264330158115**
Option 1 ID : **264330619822**
Option 2 ID : **264330619819**
Option 3 ID : **264330619821**
Option 4 ID : **264330619820**
Status : **Not Answered**
Chosen Option : **--**

Q.23 **Which of the following is NOT the requirement of a DC servomotor?**

Ans

✗ 1. Better precision

✓ 2. Less torque to weight ratio

✗ 3. Linear torque-speed characteristics

✗ 4. High accuracy

Question ID : **264330164865**
Option 1 ID : **264330646589**
Option 2 ID : **264330646590**
Option 3 ID : **264330646587**
Option 4 ID : **264330646588**
Status : **Answered**
Chosen Option : **3**

Q.24 **In the spilt-phase induction motor, maximum torque is about _____ the full load torque at about 75% of the synchronous speed.**

Ans

✗ 1. 250 times

✓ 2. 2.5 times

✗ 3. 0.25 times

✗ 4. 25 times

Question ID : **264330164889**
Option 1 ID : **264330646686**
Option 2 ID : **264330646684**
Option 3 ID : **264330646683**
Option 4 ID : **264330646685**
Status : **Answered**
Chosen Option : **3**

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Q.25 **A 3-phase star-connected alternator is rated at 1.3 MVA, 11 KV. The armature effective resistance and synchronous reactance are 1.3 Ω and 20 Ω, respectively. Calculate voltage drop due to synchronous reactance.**

Ans
✗ 1. 930.77 V
✗ 2. 2363 V
✓ 3. 1364.6 V
✗ 4. 842.24 V

Question ID : **26433099509**
Option 1 ID : **264330390650**
Option 2 ID : **264330390649**
Option 3 ID : **264330390651**
Option 4 ID : **264330390652**
Status : **Not Answered**
Chosen Option : **--**

Q.26 **The standard voltage between any two phases in three-phase four-wire secondary distribution system have _____.**

Ans
✗ 1. 33 kV
✓ 2. 400 V
✗ 3. 230 V
✗ 4. 11 kV

Question ID : **264330158109**
Option 1 ID : **264330619798**
Option 2 ID : **264330619796**
Option 3 ID : **264330619795**
Option 4 ID : **264330619797**
Status : **Answered**
Chosen Option : **3**

Q.27 **The ratio of the area under the load curve to the total area under the rectangle in which it is contained gives the value of _____.**

Ans
✗ 1. utilisation factor
✗ 2. diversity factor
✓ 3. load factor
✗ 4. average demand

Question ID : **264330158060**
Option 1 ID : **264330619602**
Option 2 ID : **264330619599**
Option 3 ID : **264330619600**
Option 4 ID : **264330619601**
Status : **Answered**
Chosen Option : **3**

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Q.28 How does the input impedance of a CRO affect its deflection sensitivity?

Ans
✗ 1. Lower input impedance leads to higher deflection sensitivity

✗ 2. It is directly proportional at low input impedance and inversely proportional at high input impedance

✗ 3. The input impedance does not affect deflection sensitivity

✓ 4. Higher input impedance leads to higher deflection sensitivity

Question ID : **264330157580**
Option 1 ID : **264330617679**
Option 2 ID : **264330617681**
Option 3 ID : **264330617682**
Option 4 ID : **264330617680**
Status : **Answered**
Chosen Option : **2**

Q.29 Which of the following statements is/are true regarding all day efficiency of a transformer?
(i) All day efficiency is also called as commercial efficiency.
(ii) All day efficiency primarily depends on the duration of load and amount of load.
(iii) All day efficiency is achieved when the iron losses are less.

Ans
✗ 1. Both (i) and (iii) are true

✗ 2. Only (i) is true

✗ 3. Only (ii) is true

✓ 4. Both (ii) and (iii) are true

Question ID : **264330100784**
Option 1 ID : **264330395683**
Option 2 ID : **264330395681**
Option 3 ID : **264330395682**
Option 4 ID : **264330395684**
Status : **Not Answered**
Chosen Option : **--**

Q.30 Which of the following motors DO/DOES NOT use three-point starters?

Ans
✗ 1. DC shunt motor

✓ 2. DC series motor

✗ 3. DC compound motor

✗ 4. Both DC shunt and compound motors

Question ID : **26433098226**
Option 1 ID : **264330385557**
Option 2 ID : **264330385559**
Option 3 ID : **264330385558**
Option 4 ID : **264330385560**
Status : **Not Answered**
Chosen Option : **--**

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Q.31 **Which of the following lamps are used in searchlights?**

Ans

✗ 1. Neon lamps

✗ 2. Fluorescent lamps

✗ 3. Sodium vapour lamp

✓ 4. Arc lamps

Question ID : **264330100096**
Option 1 ID : **264330392959**
Option 2 ID : **264330392960**
Option 3 ID : **264330392957**
Option 4 ID : **264330392958**
Status : **Answered**
Chosen Option : **1**

Q.32 **Which of the following parts is NOT present in a typical brushless DC motor?**

Ans

✗ 1. Fixed armature

✓ 2. Commutator

✗ 3. Electronic controller

✗ 4. Permanent magnet

Question ID : **264330164861**
Option 1 ID : **264330646573**
Option 2 ID : **264330646572**
Option 3 ID : **264330646571**
Option 4 ID : **264330646574**
Status : **Not Answered**
Chosen Option : **--**

Q.33 **A resistor of resistance R Ω is connected in series with a coil having an inductance of L henry. If X_L is the value of inductive reactance, what is the value of net impedance of the circuit?**

Ans

✗ 1. $\frac{\sqrt{R}}{X_L}$

✗ 2. $\sqrt{R^2 - {X_L}^2}$

✓ 3. $\sqrt{R^2 + {X_L}^2}$

✗ 4. $\frac{\sqrt{X_L}}{R}$

Question ID : **26433096121**
Option 1 ID : **264330377256**
Option 2 ID : **264330377254**
Option 3 ID : **264330377253**
Option 4 ID : **264330377255**
Status : **Answered**
Chosen Option : **3**

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Q.34 If 15A current is flowing through a solenoid of inductance 4H, find the magnetic energy stored in the solenoid.

Ans
✔ 1. 450 J
✘ 2. 540 J
✘ 3. 100 J
✘ 4. 1000 J

Question ID : **264330160224**
Option 1 ID : **264330628237**
Option 2 ID : **264330628236**
Option 3 ID : **264330628235**
Option 4 ID : **264330628238**
Status : **Answered**
Chosen Option : **2**

Q.35 Which of the following measurement instruments consumes the least amount of energy?

Ans
✘ 1. Induction type
✘ 2. Dynamometer type
✔ 3. PMMC type
✘ 4. Moving iron type

Question ID : **26433098265**
Option 1 ID : **264330385713**
Option 2 ID : **264330385715**
Option 3 ID : **264330385716**
Option 4 ID : **264330385714**
Status : **Not Answered**
Chosen Option : **--**

Q.36 FET is like a switched on condition when it operates in _____ mode.

Ans
✘ 1. ohmic
✔ 2. saturation
✘ 3. inversion
✘ 4. cut off

Question ID : **264330159778**
Option 1 ID : **264330626459**
Option 2 ID : **264330626460**
Option 3 ID : **264330626462**
Option 4 ID : **264330626461**
Status : **Not Answered**
Chosen Option : **--**

Q.37 The depletion layer capacitance is essentially the capacitance of a _____ p-n junction.

Ans
✘ 1. forward-bias
✘ 2. cut-off
✔ 3. reverse-bias
✘ 4. saturated

Question ID : **26433098137**
Option 1 ID : **264330385201**
Option 2 ID : **264330385204**
Option 3 ID : **264330385202**
Option 4 ID : **264330385203**
Status : **Answered**
Chosen Option : **3**

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Q.38 Which option among the following is correctly associated with the 'Auxiliary motor starting'?

Ans

✗ 1. A squirrel cage winding is used for the starting purpose of the starting of the synchronous motor.

✗ 2. A damper winding is used for the starting purpose of the starting of the synchronous motor.

✓ 3. A small direct-coupled induction motor, called pony motor, is used for the starting purpose of the synchronous motor.

✗ 4. A DC supply and DC compound motor is used for the starting purpose of the starting of the synchronous motor.

Question ID : **264330164908**
Option 1 ID : **264330646762**
Option 2 ID : **264330646759**
Option 3 ID : **264330646760**
Option 4 ID : **264330646761**
Status : **Not Answered**
Chosen Option : **--**

Q.39 What kind of metal does continuous bus bar wire typically consist of?

Ans

✗ 1. Iron

✗ 2. Neither copper nor aluminium

✗ 3. Plastic

✓ 4. Copper or aluminium

Question ID : **264330158183**
Option 1 ID : **264330620092**
Option 2 ID : **264330620094**
Option 3 ID : **264330620093**
Option 4 ID : **264330620091**
Status : **Answered**
Chosen Option : **4**

Q.40 What is the reason for providing corrugated or radiators on the sides of transformer tanks?

Ans

✗ 1. To increase the dielectric strength of the oil

✗ 2. To provide very small surface area to dissipate heat generated

✗ 3. To reduce the size of the transformer tank

✓ 4. To provide sufficient cooling area

Question ID : **264330162925**
Option 1 ID : **264330639015**
Option 2 ID : **264330639017**
Option 3 ID : **264330639016**
Option 4 ID : **264330639018**
Status : **Answered**
Chosen Option : **2**

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Q.41 **Which of the following options shows the correct proportion of helium and neon gases in the mixture for helium neon laser?**

Ans

✗ 1. 10% of helium and 90% of neon

✗ 2. 80% of helium and 20% of neon

✗ 3. 20% of helium and 20% of neon

✓ 4. 90% of helium and 10% of neon

Question ID : **26433098200**
Option 1 ID : **264330385453**
Option 2 ID : **264330385455**
Option 3 ID : **264330385456**
Option 4 ID : **264330385454**
Status : **Answered**
Chosen Option : **2**

Q.42 **What is the magnetising current of a transformer?**

Ans

✗ 1. The current flowing through the ferromagnetic core.

✗ 2. The current flowing through the insulation between the primary and secondary windings.

✗ 3. The current drawn by the secondary winding when a load is connected.

✓ 4. The current drawn by the primary winding when the secondary is on open circuit.

Question ID : **264330162919**
Option 1 ID : **264330638993**
Option 2 ID : **264330638994**
Option 3 ID : **264330638992**
Option 4 ID : **264330638991**
Status : **Answered**
Chosen Option : **2**

Q.43 **In Bipolar Junction Transistor, for amplification purposes, emitter-base junction is ____ and collector-base junction is _____ biased.**

Ans

✓ 1. forward; reverse

✗ 2. reverse; reverse

✗ 3. reverse; forward

✗ 4. forward; forward

Question ID : **264330159771**
Option 1 ID : **264330626432**
Option 2 ID : **264330626434**
Option 3 ID : **264330626433**
Option 4 ID : **264330626431**
Status : **Answered**
Chosen Option : **3**

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Q.44 **An AC circuit contains a resistance and inductance connected in series. The active power consumed by the circuit is equal to 4800 W and reactive power is 6400 VAR. Calculate the apparent power.**

Ans
✗ 1. 4233 VA
✓ 2. 8000 VA
✗ 3. 1058.3 VA
✗ 4. 11200 VA

Question ID : **26433098290**
Option 1 ID : **264330385815**
Option 2 ID : **264330385814**
Option 3 ID : **264330385816**
Option 4 ID : **264330385813**
Status : **Answered**
Chosen Option : **4**

Q.45 **In electrical applications, the coil of an infrared lamp is made up of _____.**

Ans
✗ 1. copper
✓ 2. tungsten
✗ 3. nichrome
✗ 4. iron

Question ID : **264330157600**
Option 1 ID : **264330617760**
Option 2 ID : **264330617761**
Option 3 ID : **264330617762**
Option 4 ID : **264330617759**
Status : **Answered**
Chosen Option : **3**

Q.46 **Select the INCORRECT statement(s) regarding squirrel-cage induction generators used in wind power plants.**
A) They can be used in both constant-speed and variable-speed applications.
B) They work within a narrow speed range, which is slightly above the synchronous speed.
C) Squirrel-cage induction generators are more expensive than wound-rotor induction generators.

Ans
✓ 1. Only C
✗ 2. Only A
✗ 3. A and B
✗ 4. Only B

Question ID : **264330158067**
Option 1 ID : **264330619629**
Option 2 ID : **264330619627**
Option 3 ID : **264330619630**
Option 4 ID : **264330619628**
Status : **Answered**
Chosen Option : **3**

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Q.47 What is core-stepping in core-type transformers?

Ans

✔ 1. A method to reduce the length of the mean turn

✘ 2. A method to increase the length of the mean turn

✘ 3. A method to increase the R loss

✘ 4. A method to reduce the space factor

Question ID : **264330162927**
Option 1 ID : **264330639024**
Option 2 ID : **264330639023**
Option 3 ID : **264330639025**
Option 4 ID : **264330639026**
Status : **Answered**
Chosen Option : **1**

Q.48 In a phasing out test, a voltmeter connected to the winding shows deflection when the supply is given; this indicates that this is _____.

Ans

✘ 1. tertiary winding only

✔ 2. secondary winding only

✘ 3. primary winding only

✘ 4. both primary and secondary winding

Question ID : **26433096699**
Option 1 ID : **264330379535**
Option 2 ID : **264330379534**
Option 3 ID : **264330379533**
Option 4 ID : **264330379536**
Status : **Answered**
Chosen Option : **4**

Q.49

What is the maximum electric field when V_{bi}=3V, V_R= 4V, and the width of the semiconductor is 7 cm?

Ans

✘ 1. −400 V/m

✔ 2. −200 V/m

✘ 3. 200 V/m

✘ 4. 300 V/m

Question ID : **264330159785**
Option 1 ID : **264330626490**
Option 2 ID : **264330626489**
Option 3 ID : **264330626487**
Option 4 ID : **264330626488**
Status : **Not Answered**
Chosen Option : **--**

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Q.50 **Select the correct statement(s) with respect to the Francis turbine.**
A) It is used in medium heads and for moderate discharges.
B) It is an axial-in radial-out type of turbine.
C) It is an example of a mixed-flow turbine.

Ans
✗ 1. A and B
✓ 2. A and C
✗ 3. Only A
✗ 4. B and C

Question ID : **264330158071**
Option 1 ID : **264330619645**
Option 2 ID : **264330619643**
Option 3 ID : **264330619644**
Option 4 ID : **264330619646**
Status : **Answered**
Chosen Option : **1**

Q.51 **A coil consists of 1000 turns having a cross-sectional area of 0.4 mm^2 . The mean length per turn is 40 cm and the resistivity of the wire is 0.02μΩ-m. The resistance of the coil is _____.**

Ans
✗ 1. 40Ω
✗ 2. 20μΩ
✗ 3. 200Ω
✓ 4. 20Ω

Question ID : **26433096407**
Option 1 ID : **264330378368**
Option 2 ID : **264330378365**
Option 3 ID : **264330378366**
Option 4 ID : **264330378367**
Status : **Not Answered**
Chosen Option : **--**

Q.52 **Because of their high efficiency and high speed, synchronous motors are well suited for_____.**

Ans
✗ 1. ceiling fans
✗ 2. electric tractions
✗ 3. mixer grinders
✓ 4. blowers

Question ID : **26433099520**
Option 1 ID : **264330390694**
Option 2 ID : **264330390695**
Option 3 ID : **264330390696**
Option 4 ID : **264330390693**
Status : **Not Answered**
Chosen Option : **--**

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Q.53 In case of electromagnetic induction, two coils are arranged in such a way that a change in one coil causes an EMF to be induced in the other coil. This is called _____.

Ans
✗ 1. self-inductance
✗ 2. parallel inductance
✗ 3. series inductance
✓ 4. mutual inductance

Question ID : **264330157624**
Option 1 ID : **264330617855**
Option 2 ID : **264330617858**
Option 3 ID : **264330617857**
Option 4 ID : **264330617856**
Status : **Answered**
Chosen Option : **1**

Q.54 The type of armature winding used in large high-voltage alternators is:

Ans
✗ 1. wave winding
✗ 2. two layer winding
✓ 3. concentric winding
✗ 4. lap winding

Question ID : **26433099514**
Option 1 ID : **264330390672**
Option 2 ID : **264330390669**
Option 3 ID : **264330390670**
Option 4 ID : **264330390671**
Status : **Answered**
Chosen Option : **2**

Q.55 A voltage source having some internal resistance delivers a 2A current when a 5Ω load is connected to it. When the load is 10Ω, then the current becomes 1.6A. Calculate the power transfer efficiency of the source for a 15Ω load.

Ans
✗ 1. 90%
✓ 2. 50%
✗ 3. 100%
✗ 4. 10%

Question ID : **264330160216**
Option 1 ID : **264330628204**
Option 2 ID : **264330628203**
Option 3 ID : **264330628205**
Option 4 ID : **264330628206**
Status : **Answered**
Chosen Option : **3**

Q.56 In a metal filament bulb, the filament used as a heating coil is tungsten due to its _____.

Ans
✗ 1. high melting point and low resistivity
✗ 2. low melting point and high resistivity
✓ 3. high melting point and high resistivity
✗ 4. low melting point and low resistivity

Question ID : **264330157602**
Option 1 ID : **264330617769**
Option 2 ID : **264330617768**
Option 3 ID : **264330617770**
Option 4 ID : **264330617767**
Status : **Not Answered**
Chosen Option : **--**

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Q.57 What will be the direction of deflecting torque in a moving iron instrument if the direction of current in the coil is reversed at the same magnitude?

Ans
✗ 1. Reverse direction
✗ 2. Reduced by half
✗ 3. Reduced to zero
✓ 4. Same direction

Question ID : **264330157592**
Option 1 ID : **264330617727**
Option 2 ID : **264330617730**
Option 3 ID : **264330617729**
Option 4 ID : **264330617728**
Status : **Not Answered**
Chosen Option : **--**

Q.58 Which of the following lamps is suitable for highway lighting?

Ans
✗ 1. Neon lamp
✗ 2. Fluorescent lamp
✗ 3. Incandescent lamp
✓ 4. Sodium vapour light

Question ID : **264330158185**
Option 1 ID : **264330620102**
Option 2 ID : **264330620099**
Option 3 ID : **264330620101**
Option 4 ID : **264330620100**
Status : **Answered**
Chosen Option : **2**

Q.59 When two or more sinusoidal waves are precisely in step with one another, they are said to be:

Ans
✗ 1. out of phase
✗ 2. 60 degrees lagging
✗ 3. 60 degrees leading
✓ 4. in phase

Question ID : **26433096118**
Option 1 ID : **264330377242**
Option 2 ID : **264330377243**
Option 3 ID : **264330377244**
Option 4 ID : **264330377241**
Status : **Answered**
Chosen Option : **3**

Q.60 What kind of error does it constitute if only one of the parties to a contract misunderstands its terms or scope?

Ans
✗ 1. Mutual mistake
✓ 2. Unilateral mistake
✗ 3. Bilateral mistake
✗ 4. Multilateral mistake

Question ID : **264330158156**
Option 1 ID : **264330619983**
Option 2 ID : **264330619986**
Option 3 ID : **264330619985**
Option 4 ID : **264330619984**
Status : **Not Answered**
Chosen Option : **--**

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Q.61 Which of the following is the application of soft magnetic materials?

Ans
✔ 1. Electromagnets
✘ 2. Microphones
✘ 3. Speakers
✘ 4. Permanent magnets

Question ID : **26433096874**
Option 1 ID : **264330380236**
Option 2 ID : **264330380235**
Option 3 ID : **264330380234**
Option 4 ID : **264330380233**
Status : **Answered**
Chosen Option : **1**

Q.62 In a PMMC instrument, if the controlling torque is too high, what effect will it have on the accuracy of the instrument?

Ans
✘ 1. The instrument will stop working.
✘ 2. The accuracy of the instrument will increase.
✔ 3. The accuracy of the instrument will decrease.
✘ 4. The accuracy of the instrument will remain unaffected.

Question ID : **264330160647**
Option 1 ID : **264330629922**
Option 2 ID : **264330629919**
Option 3 ID : **264330629920**
Option 4 ID : **264330629921**
Status : **Not Answered**
Chosen Option : **--**

Q.63 A 230 V, 3-phase voltage is applied to a balance delta connected 3-phase load of phase impedance (15 + j 20) Ω. What is the power consumed per phase?

Ans
✔ 1. 1269.6 W
✘ 2. 2198.3 W
✘ 3. 1161.6 W
✘ 4. 3807.6 W

Question ID : **26433098298**
Option 1 ID : **264330385846**
Option 2 ID : **264330385847**
Option 3 ID : **264330385848**
Option 4 ID : **264330385845**
Status : **Not Answered**
Chosen Option : **--**

Q.64 An RLC series circuit has R = 5 Ω and L = 1 H. Which of the following values of capacitance will make this circuit critically damped?

Ans
✘ 1. 0.20 F
✔ 2. 0.16 F
✘ 3. 0.08 F
✘ 4. 0.30 F

Question ID : **264330159436**
Option 1 ID : **264330625105**
Option 2 ID : **264330625103**
Option 3 ID : **264330625104**
Option 4 ID : **264330625106**
Status : **Not Answered**
Chosen Option : **--**

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Q.65 Which of the following information is NOT present on the nameplate of a transformer?

Ans
✗ 1. Rated frequency
✗ 2. Insulation class
✗ 3. kVA or MVA rating
✓ 4. Frame size

Question ID : **264330163315**
Option 1 ID : **264330640559**
Option 2 ID : **264330640561**
Option 3 ID : **264330640562**
Option 4 ID : **264330640560**
Status : **Answered**
Chosen Option : **2**

Q.66 A coil having a resistance of 8 Ω and an inductance of 0.01911 Henry is connected across a 230 V, 50 Hz AC supply. The reactive power is equal to _____.

Ans
✗ 1. 4.496 KVAR
✗ 2. 4.232 KVAR
✗ 3. 3.703 KVAR
✓ 4. 3.174 KVAR

Question ID : **26433098293**
Option 1 ID : **264330385828**
Option 2 ID : **264330385825**
Option 3 ID : **264330385827**
Option 4 ID : **264330385826**
Status : **Not Answered**
Chosen Option : **--**

Q.67 An electrodynamometer is widely used as a _____.

Ans
✗ 1. calibration instrument
✓ 2. transfer instrument
✗ 3. low impedance circuit
✗ 4. calibration instrument and transfer instrument

Question ID : **264330100758**
Option 1 ID : **264330395577**
Option 2 ID : **264330395578**
Option 3 ID : **264330395580**
Option 4 ID : **264330395579**
Status : **Answered**
Chosen Option : **4**

Q.68 The most important consideration when making a detailed estimate is:

Ans
✗ 1. Only availability of materials
✓ 2. quantity, transportation and availability of materials
✗ 3. Only quantity of the materials
✗ 4. Only transportation of materials

Question ID : **264330158179**
Option 1 ID : **264330620077**
Option 2 ID : **264330620078**
Option 3 ID : **264330620075**
Option 4 ID : **264330620076**
Status : **Answered**
Chosen Option : **2**

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Q.69 The total inductance of two coupled coils in the 'series aiding' and 'series opposing' connections are 4 H and 2 H, respectively. The value of mutual inductance will be _____.

Ans
✗ 1. 0.2 H
✓ 2. 0.5 H
✗ 3. 0.33 H
✗ 4. 0.75 H

Question ID : **26433096868**
Option 1 ID : **264330380209**
Option 2 ID : **264330380211**
Option 3 ID : **264330380210**
Option 4 ID : **264330380212**
Status : **Not Answered**
Chosen Option : **--**

Q.70 In an AC circuit, the peak voltage is 388 V. Its effective voltage is:

Ans
✗ 1. 200 V
✗ 2. 300 V
✓ 3. 275 V
✗ 4. 230 V

Question ID : **264330159430**
Option 1 ID : **264330625082**
Option 2 ID : **264330625081**
Option 3 ID : **264330625079**
Option 4 ID : **264330625080**
Status : **Answered**
Chosen Option : **4**

Q.71 The capacitance of a parallel plate capacitor having two plates of area A = 200 cm^2 and separated by distance d = 10 cm is given by _____ if the permittivity of medium is 8.854×10^{-12} F/m

Ans
✗ 1. 17.7 μF
✓ 2. 17.7×10^{-7} μF
✗ 3. 17.7 F
✗ 4. 17.7 PF

Question ID : **26433098269**
Option 1 ID : **264330385729**
Option 2 ID : **264330385731**
Option 3 ID : **264330385732**
Option 4 ID : **264330385730**
Status : **Answered**
Chosen Option : **2**

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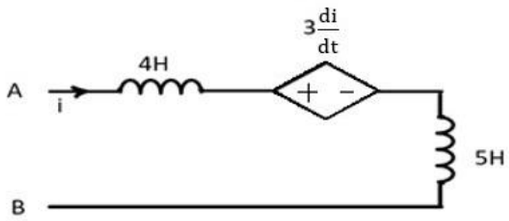
Q.72 As the leading power factor of the load of an alternator decreases, the magnitude of generated voltage required to give rated terminal voltage _____.

Ans
✗ 1. remains unchanged
✓ 2. increases
✗ 3. first increases and then decreases
✗ 4. decreases

Question ID : **264330164895**
Option 1 ID : **264330646709**
Option 2 ID : **264330646707**
Option 3 ID : **264330646710**
Option 4 ID : **264330646708**
Status : **Not Answered**
Chosen Option : **--**

Q.73 Find the value of the equivalent inductance as seen from the open terminal for the diagram shown below.



Ans
✓ 1. 12H
✗ 2. 24H
✗ 3. 10H
✗ 4. 9H

Question ID : **26433096409**
Option 1 ID : **264330378373**
Option 2 ID : **264330378376**
Option 3 ID : **264330378375**
Option 4 ID : **264330378374**
Status : **Answered**
Chosen Option : **3**

Q.74 Which of the following is the outermost layer of an underground cable?

Ans
✓ 1. Serving
✗ 2. Armour
✗ 3. Insulation
✗ 4. Sheath

Question ID : **264330158125**
Option 1 ID : **264330619861**
Option 2 ID : **264330619862**
Option 3 ID : **264330619859**
Option 4 ID : **264330619860**
Status : **Answered**
Chosen Option : **3**

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Q.75 **A constant voltage source is applied between the two ends of a wire. If the length of the wire is doubled and the radius remains the same, then the rate of heat developed in the wire _____.**

Ans
✗ 1. will be 4 times
✗ 2. will be zero
✓ 3. will be halved
✗ 4. will remain the same

Question ID : **264330160206**
Option 1 ID : **264330628166**
Option 2 ID : **264330628165**
Option 3 ID : **264330628164**
Option 4 ID : **264330628163**
Status : **Not Answered**
Chosen Option : --

Q.76 **Which of the following motors is used for shears and presses?**

Ans
✗ 1. DC shunt motor
✓ 2. DC compound motor
✗ 3. Stepper motor
✗ 4. DC series motor

Question ID : **26433098228**
Option 1 ID : **264330385565**
Option 2 ID : **264330385566**
Option 3 ID : **264330385568**
Option 4 ID : **264330385567**
Status : **Not Answered**
Chosen Option : --

Q.77 **A 64kΩ resistor has a specified maximum power dissipation of 1000 watts. The maximum current that may be passed through the resistor is _____.**

Ans
✗ 1. $64\ A$
✗ 2. $32A$
✓ 3. $\frac{1}{8}A$
✗ 4. $8A$

Question ID : **26433096412**
Option 1 ID : **264330378388**
Option 2 ID : **264330378387**
Option 3 ID : **264330378386**
Option 4 ID : **264330378385**
Status : **Not Answered**
Chosen Option : --

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Q.78 **What is the purpose of interleaving the windings in a transformer?**

Ans

✗ 1. To reduce the efficiency of the transformer

✗ 2. To increase the leakage flux

✓ 3. To reduce the leakage flux

✗ 4. To increase the inductance of the transformer

Question ID : **264330162923**
Option 1 ID : **264330639007**
Option 2 ID : **264330639008**
Option 3 ID : **264330639010**
Option 4 ID : **264330639009**
Status : **Answered**
Chosen Option : **1**

Q.79 **In case of circuit laws, the currents flowing in various conductors in an electrical circuit are calculated by applying _____.**

Ans

✗ 1. Laplace's law

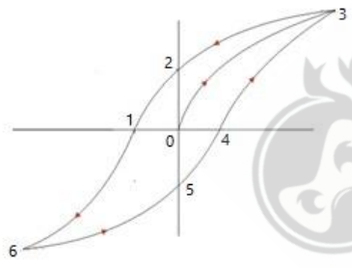
✗ 2. the network reduction method

✗ 3. the direct method

✓ 4. Kirchhoff's law

Question ID : **264330160079**
Option 1 ID : **264330627658**
Option 2 ID : **264330627656**
Option 3 ID : **264330627655**
Option 4 ID : **264330627657**
Status : **Answered**
Chosen Option : **3**

Q.80 Which of the following portions represents retentivity in the BH curve shown below?



Ans

✗ 1. 1

✗ 2. 3

✓ 3. 2

✗ 4. 6

Question ID : **26433098181**
Option 1 ID : **264330385377**
Option 2 ID : **264330385379**
Option 3 ID : **264330385378**
Option 4 ID : **264330385380**
Status : **Answered**
Chosen Option : **1**

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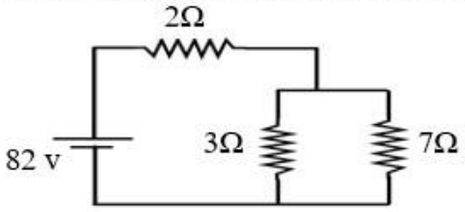
Q.81 Find the current flowing through the 7Ω resistor.



Ans
✗ 1. 20 A
✓ 2. 6 A
✗ 3. 7 A
✗ 4. 14 A

Question ID : **26433098180**
Option 1 ID : **264330385375**
Option 2 ID : **264330385373**
Option 3 ID : **264330385376**
Option 4 ID : **264330385374**
Status : **Answered**
Chosen Option : **1**

Q.82 **The main reason to amplify the input signals by using vertical amplifier is:**

Ans
✗ 1. the input impedance is low
✓ 2. they are not strong to provide deflection that can be measured
✗ 3. they provide attenuation
✗ 4. they provide low stability

Question ID : **264330100764**
Option 1 ID : **264330395604**
Option 2 ID : **264330395601**
Option 3 ID : **264330395602**
Option 4 ID : **264330395603**
Status : **Answered**
Chosen Option : **2**

Q.83 **A repulsion start induction run single phase motor runs as an IM only when _____.**

Ans
✗ 1. short circuit is disconnected
✗ 2. stator winding is reversed
✓ 3. the commutator segments are short circuited
✗ 4. brushes are shifted to neutral phase

Question ID : **26433099621**
Option 1 ID : **264330391098**
Option 2 ID : **264330391100**
Option 3 ID : **264330391099**
Option 4 ID : **264330391097**
Status : **Answered**
Chosen Option : **3**

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Q.84 In radial distribution system, separate feeder radiates from single substation and feeds the distributors at _____.

Ans
✔ 1. one end only
✘ 2. two ends
✘ 3. three ends
✘ 4. four ends

Question ID : **264330158092**
Option 1 ID : **264330619727**
Option 2 ID : **264330619728**
Option 3 ID : **264330619729**
Option 4 ID : **264330619730**
Status : **Not Answered**
Chosen Option : --

Q.85 Which of the following is NOT a type of Field Effect Transistor?

Ans
✘ 1. JFET
✘ 2. Depletion MOSFET
✘ 3. Enhancement MOSFET
✔ 4. Thyristor

Question ID : **264330159774**
Option 1 ID : **264330626445**
Option 2 ID : **264330626444**
Option 3 ID : **264330626443**
Option 4 ID : **264330626446**
Status : **Not Answered**
Chosen Option : --

Q.86 To measure the frequency of a waveform, which of the following data is necessary from the CRO?

Ans
✔ 1. Time period of the waveform
✘ 2. Peak to peak value of the waveform
✘ 3. Vertical scale setting
✘ 4. Amplitude of the waveform

Question ID : **264330157575**
Option 1 ID : **264330617661**
Option 2 ID : **264330617660**
Option 3 ID : **264330617662**
Option 4 ID : **264330617659**
Status : **Not Answered**
Chosen Option : --

Q.87 An electric kettle consumes 10kw of electric power when operated at 200 V. A fuse wire of what rating must be used for it?

Ans
✘ 1. 10A
✔ 2. 50A
✘ 3. 40A
✘ 4. 30A

Question ID : **264330160205**
Option 1 ID : **264330628159**
Option 2 ID : **264330628162**
Option 3 ID : **264330628161**
Option 4 ID : **264330628160**
Status : **Answered**
Chosen Option : **2**

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Q.88 In case of magnetic circuits, the product of the number of turns on a coil and the current flowing through the coil is called _____.

Ans
✔ 1. MMF
✘ 2. absolute permeability
✘ 3. relative permeability
✘ 4. EMF

Question ID : **264330157667**
Option 1 ID : **264330618027**
Option 2 ID : **264330618029**
Option 3 ID : **264330618030**
Option 4 ID : **264330618028**
Status : **Not Answered**
Chosen Option : --

Q.89 Current (I) expression of a diode is given by: (where symbols have usual meaning)

Ans
✘ 1. $I = I_0(e^{\frac{qv}{\eta T}} - 1)$

✘ 2. $I = I_0(e^{\frac{v}{\eta kT}})$

✔ 3. $I = I_0(e^{\frac{qv}{\eta kT}} - 1)$

✘ 4. $I = I_0(e^{\frac{qv}{\eta kT}} - 2)$

Question ID : **264330159788**
Option 1 ID : **264330626502**
Option 2 ID : **264330626501**
Option 3 ID : **264330626499**
Option 4 ID : **264330626500**
Status : **Not Answered**
Chosen Option : --

Q.90 Which of the following lamps is used for the determination of polarity of DC mains?

Ans
✘ 1. Sodium vapour lamp
✘ 2. Carbon arc lamp
✘ 3. Mercury vapour lamp
✔ 4. Neon discharge lamp

Question ID : **26433098219**
Option 1 ID : **264330385530**
Option 2 ID : **264330385531**
Option 3 ID : **264330385532**
Option 4 ID : **264330385529**
Status : **Not Answered**
Chosen Option : --

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Q.91 The shaded-pole induction motors have _____ compared with other motor types and may not be suitable for applications with _____ or where precise speed control is necessary.

Ans
✗ 1. high efficiency; light loads
✓ 2. lower efficiency; heavy loads
✗ 3. high efficiency; heavy loads
✗ 4. lower efficiency; light loads

Question ID : **264330164880**
Option 1 ID : **264330646650**
Option 2 ID : **264330646647**
Option 3 ID : **264330646648**
Option 4 ID : **264330646649**
Status : **Answered**
Chosen Option : **1**

Q.92 Which of the following types of cooling is more economical for very large transformers of rating 100 MVA?

Ans
✓ 1. Oil forced water forced
✗ 2. Oil forced air forced
✗ 3. Oil natural air forced
✗ 4. Oil natural air natural

Question ID : **264330163316**
Option 1 ID : **264330640566**
Option 2 ID : **264330640565**
Option 3 ID : **264330640564**
Option 4 ID : **264330640563**
Status : **Not Answered**
Chosen Option : **--**

Q.93 What inductance would be needed to store 2kWh of energy in a coil carrying a 100A current?

Ans
✗ 1. 4 H
✓ 2. 1440 H
✗ 3. 0.4 H
✗ 4. 100 H

Question ID : **26433096401**
Option 1 ID : **264330378342**
Option 2 ID : **264330378343**
Option 3 ID : **264330378341**
Option 4 ID : **264330378344**
Status : **Not Answered**
Chosen Option : **--**

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Q.94 **Which of the following is NOT a desirable criteria for an underground cable?**

Ans
✗ 1. Proper insulation thickness should be taken care of in order to provide greater degree of safety

✗ 2. Conductors should be used such that heating loss is minimum

✗ 3. Conductors used in the cable should be stranded

✓ 4. Mechanical protection is not required in any underground cable

Question ID : **264330158126**
Option 1 ID : **264330619866**
Option 2 ID : **264330619864**
Option 3 ID : **264330619863**
Option 4 ID : **264330619865**
Status : **Answered**
Chosen Option : **1**

Q.95 **Which of the following is NOT an application of shaded-pole induction motor?**

Ans
✗ 1. Fans for refrigeration

✓ 2. A lift of a building

✗ 3. Table fan

✗ 4. Hair drier

Question ID : **264330164877**
Option 1 ID : **264330646638**
Option 2 ID : **264330646635**
Option 3 ID : **264330646636**
Option 4 ID : **264330646637**
Status : **Not Answered**
Chosen Option : **--**

Q.96 **A wind turbine with a rotor diameter of 60 m is installed in an area with an average wind speed of 4 m/s. Find the wind power density in watts per square metre, assuming that the air density in the area is 1.5 kg/m^3.**

Ans
✗ 1. 135.67 KW/m^2

✗ 2. 736.45 KW/m^2

✓ 3. 271.3 KW/m^2

✗ 4. 542.6 KW/m^2

Question ID : **264330162694**
Option 1 ID : **264330638097**
Option 2 ID : **264330638098**
Option 3 ID : **264330638096**
Option 4 ID : **264330638095**
Status : **Not Answered**
Chosen Option : **--**

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Q.97 **Which of the following points clearly describe the need for a back-to-back converter connected to the rotor of a doubly fed induction generator [DFIG] used in wind power plants?**
(i) It feeds the rotor with currents of fixed frequency and thus, helps in achieving a fixed range of speed.
(ii) It feeds the rotor with currents of varying frequency and thus, helps in achieving various ranges of speed.
(iii) It helps in power factor correction by adjusting the active power output of the DFIG.
(iv) It helps in power factor correction by adjusting the reactive power output of the DFIG.

Ans
✗ 1. (i) and (iii)
✗ 2. (i) and (iv)
✗ 3. (ii) and (iii)
✓ 4. (ii) and (iv)

Question ID : **264330158081**
Option 1 ID : **264330619683**
Option 2 ID : **264330619684**
Option 3 ID : **264330619686**
Option 4 ID : **264330619685**
Status : **Not Answered**
Chosen Option : **--**

Q.98 **If a current varies periodically from zero to maximum, back to zero and then repeats, the signal is a:**

Ans
✗ 1. sinusoidal signal
✗ 2. direct signal
✓ 3. pulsating signal
✗ 4. constant signal

Question ID : **26433098300**
Option 1 ID : **264330385853**
Option 2 ID : **264330385854**
Option 3 ID : **264330385856**
Option 4 ID : **264330385855**
Status : **Not Answered**
Chosen Option : **--**

Q.99 **The shaded-pole induction motors are of _____.**

Ans
✓ 1. low cost
✗ 2. very high cost
✗ 3. zero cost
✗ 4. high cost

Question ID : **264330164879**
Option 1 ID : **264330646643**
Option 2 ID : **264330646645**
Option 3 ID : **264330646646**
Option 4 ID : **264330646644**
Status : **Answered**
Chosen Option : **2**

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Q.100 What is the charging current per phase of a three-core underground cable connected to 22 kV, 50 Hz three phase supply? Given that the capacitance of each phase to neutral is 18 μF. (Given the connection is star connected.)

Ans
✔ 1. 71.82 A

✗ 2. 84.45 A

✗ 3. 82.13 A

✗ 4. 50 A

Question ID : **264330159737**
Option 1 ID : **264330626304**
Option 2 ID : **264330626306**
Option 3 ID : **264330626305**
Option 4 ID : **264330626303**
Status : **Not Answered**
Chosen Option : **--**

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