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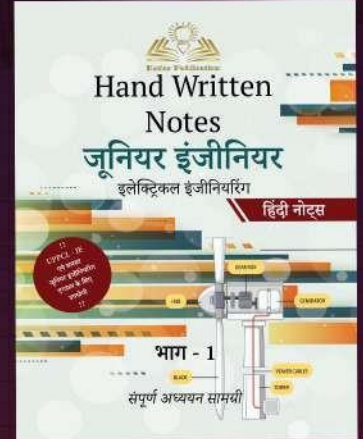
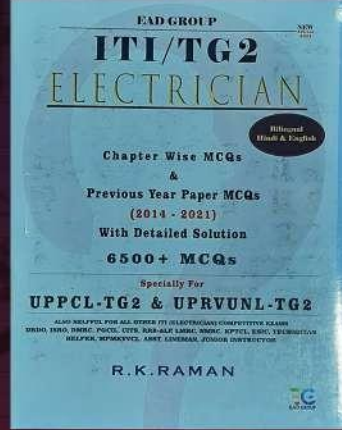
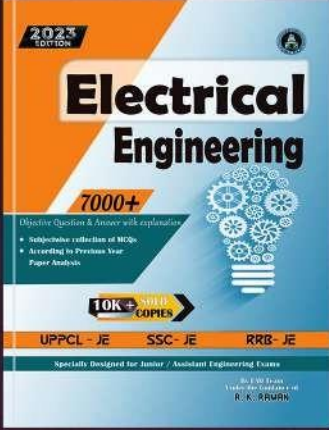
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**Electrical-JE**

**Electronics-JE**

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**JE Short Notes**



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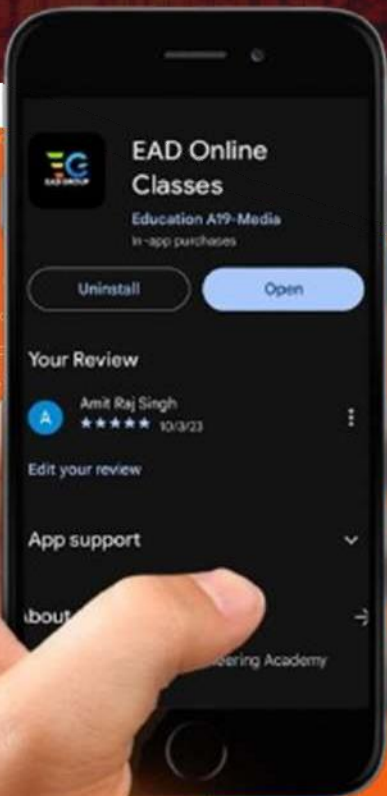
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**Raman sir**  
Electrical Engg. Expert



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## Junior Engineer Civil Mechanical and Electrical Examination 2023 Paper I

Roll Number	
Candidate Name	<b>EAD GROUP</b>
Venue Name	
Exam Date	09/10/2023
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2023 Electrical Paper I

Section : General Intelligence and Reasoning

Q.1 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.

Statements:

Few mountains are rivers.

Most rivers are valleys.

All valleys are hills.

Conclusions:

(I) Few mountains are valleys.

(II) Some hills are mountains.

(III) Some rivers are hills.

- Ans
- 1. Either conclusion I or II and conclusion III follow
  - 2. All the conclusions I, II and III follow
  - 3. Only conclusion III follows
  - 4. Only conclusion I follows

Question ID : 264330144543

Option 1 ID : 264330566429

Option 2 ID : 264330566430

Option 3 ID : 264330566428

Option 4 ID : 264330566427

Status : Answered

Chosen Option : 3

Q.2 उस शब्द युग्म का चयन कीजिए, जिसमें दिए गए दोनों शब्द एक दूसरे से उसी तरह से संबंधित हैं, जिस तरह दिए गए युग्म के दोनों शब्द एक दूसरे से संबंधित हैं। (शब्दों को सार्थक शब्द माना जाना चाहिए, और शब्द में अक्षरों की संख्या/व्यंजनों/स्वरों की संख्या के आधार पर एक दूसरे से संबंधित नहीं होना चाहिए।)  
बाधा डालना (Hamper) : धीमा करना (Retard)

- Ans
- 1. फीका (Insipid) : नीरस (Tedious)
  - 2. पंगु करना (Hamstrung) : प्रोत्साहित करना (Encourage)
  - 3. पाखण्ड (Hypocrisy) : निष्कपटता (Frankness)
  - 4. प्रसन्नचित्त (Jovial) : गंभीर (Solemn)

Question ID : 264330114739

Option 1 ID : 264330451041

Option 2 ID : 264330451043

Option 3 ID : 264330451044

Option 4 ID : 264330451042

Status : Answered

Chosen Option : 1

Q.3 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 इनका परस्पर संबंध शब्द में अक्षरों की संख्या/ व्यंजनों/स्वरों की संख्या के आधार पर नहीं होना चाहिए।)

मस्टैंग (Mustang) : घोड़ा (Horse)

- Ans
- 1. ब्राहसिंहा (Stag) : हिरण (Deer)
  - 2. बर्मीज (Burmese) : बिल्ली (Cat)
  - 3. टर्की (Turkey) : फ़ाउल (Fowl)
  - 4. पैंथेरा लियो (Panthera Leo) : शेर (Lion)

Question ID : 264330129754  
Option 1 ID : 264330508248  
Option 2 ID : 264330508247  
Option 3 ID : 264330508250  
Option 4 ID : 264330508249  
Status : Answered  
Chosen Option : 4

Q.4 In a certain code language, 'BRANCH' is coded as DUCQEK and 'CARBON' is coded as EDTEQQ. How will 'DRIVEN' be coded in that language?

- Ans
- 1. FUJYHQ
  - 2. FUKYGQ
  - 3. GUKZGR
  - 4. GUKYGQ

Question ID : 264330133208  
Option 1 ID : 264330521882  
Option 2 ID : 264330521880  
Option 3 ID : 264330521881  
Option 4 ID : 264330521879  
Status : Answered  
Chosen Option : 2

Q.5 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding/subtraction/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)

(33, 6, 54)

(22, 7, 30)

- Ans
- 1. (26, 8, 36)
  - 2. (18, 3, 42)
  - 3. (14, 4, 26)
  - 4. (24, 2, 66)

Question ID : 264330144423  
Option 1 ID : 264330565949  
Option 2 ID : 264330565948  
Option 3 ID : 264330565950  
Option 4 ID : 264330565947  
Status : Not Answered  
Chosen Option : --



Q.6 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Whisker
2. Whistle
3. Wistful
4. Wither
5. Whisper
6. Wishful

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

2. 5, 1, 2, 3, 4, 6

3. 1, 5, 2, 3, 6, 4

4. 5, 1, 2, 6, 3, 4

Question ID : 264330129472

Option 1 ID : 264330507257

Option 2 ID : 264330507256

Option 3 ID : 264330507255

Option 4 ID : 264330507254

Status : Answered

Chosen Option : 1

Q.7 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Object
2. Obey
3. Obligation
4. Obedience
5. Obligatory

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

2. 4, 2, 1, 3, 5

3. 4, 2, 1, 5, 3

4. 4, 2, 3, 1, 5

Question ID : 264330129553

Option 1 ID : 264330507578

Option 2 ID : 264330507579

Option 3 ID : 264330507580

Option 4 ID : 264330507581

Status : Answered

Chosen Option : 2

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Q.8 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:

All dogs are cats.

Some cows are cats but not dogs

Conclusions:

I. Some dogs are cows.

II. Some cats are both dogs and cows.

Ans ✓ 1. Neither conclusion I nor II follows

✗ 2. Both conclusions I and II follow

✗ 3. Only conclusion II follows

✗ 4. Only conclusion I follows

Question ID : 264330144949

Option 1 ID : 264330568054

Option 2 ID : 264330568053

Option 3 ID : 264330568052

Option 4 ID : 264330568051

Status : Answered

Chosen Option : 3

Q.9 'OU22' is related to 'LF11' in a certain way. In the same way, 'TN12' is related to 'GM6'. Which of the following is related to 'AP22' using the same logic?

Ans ✓ 1. ZK44

✗ 2. ZL44

✗ 3. YK44

✗ 4. ZK88

Question ID : 264330144604

Option 1 ID : 264330566672

Option 2 ID : 264330566671

Option 3 ID : 264330566673

Option 4 ID : 264330566674

Status : Answered

Chosen Option : 1

Q.10 उस विकल्प का चयन कीजिए, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है। (शब्दों को अर्थपूर्ण शब्दों के रूप में माना जाना चाहिए, और शब्द में अक्षरों की संख्या / व्यंजनों / स्वरों की संख्या के आधार पर एक दूसरे से संबंधित नहीं होना चाहिए।)

उकसाना (Persuade) : हतोत्साहित करना (Discourage) :: पारंगत (Profound) : ?

Ans ✓ 1. अल्पज्ञ (Superficial)

✗ 2. गहन (Intense)

✗ 3. ईमानदार (Sincere)

✗ 4. चतुर (Clever)

Question ID : 264330144565

Option 1 ID : 264330566516

Option 2 ID : 264330566515

Option 3 ID : 264330566518

Option 4 ID : 264330566517

Status : Answered

Chosen Option : 2

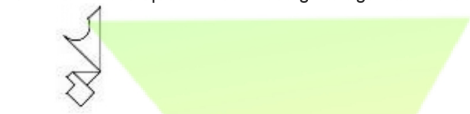


Q.11 Which of the following numbers will replace the question marks (?) in the given series?  
20, 30, 42, 56, ?, 90

- Ans
- 1. 58
  - 2. 78
  - 3. 36
  - 4. 72

Question ID : 26433097280  
Option 1 ID : 264330381818  
Option 2 ID : 264330381817  
Option 3 ID : 264330381819  
Option 4 ID : 264330381820  
Status : Answered  
Chosen Option : 4

Q.12 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans

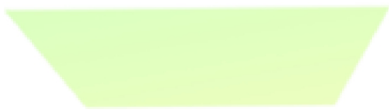
- 1.
- 2.
- 3.
- 4.

Question ID : 264330126087  
Option 1 ID : 264330494021  
Option 2 ID : 264330494022  
Option 3 ID : 264330494020  
Option 4 ID : 264330494023  
Status : Answered  
Chosen Option : 2

Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

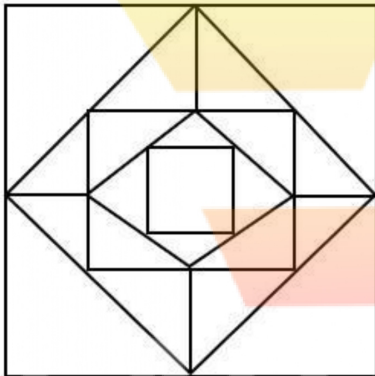


- Ans
- 1. KLIOTHGJRURUT
  - 2. TLRHUIOIRGRTK
  - 3. KGRUIOTIHRUT
  - 4. TURYHTOIURGLK



Question ID : 264330108973  
 Option 1 ID : 264330428172  
 Option 2 ID : 264330428171  
 Option 3 ID : 264330428170  
 Option 4 ID : 264330428169  
 Status : Answered  
 Chosen Option : 4

Q.14 How many triangles are there in the given figure?



- Ans
- 1. 24
  - 2. 30
  - 3. 26
  - 4. 28

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Question ID : 26433066231  
 Option 1 ID : 264330259456  
 Option 2 ID : 264330259459  
 Option 3 ID : 264330259457  
 Option 4 ID : 264330259458  
 Status : Answered  
 Chosen Option : 1



Q.15 Select the correct combination of mathematical signs that can sequentially replace the boxes and balance the given equation.

$$30 \square 13 \square 21 \square 3 \square 2 \square 4 \square 2$$

Ans  1. -, -, ÷, =, ×, +

2. -, +, ×, =, ÷, +

3. -, +, ÷, ×, =, +

4. +, -, ÷, ×, =, +

Question ID : 264330129584  
Option 1 ID : 264330507704  
Option 2 ID : 264330507702  
Option 3 ID : 264330507705  
Option 4 ID : 264330507703  
Status : Answered  
Chosen Option : 1

Q.16 In a certain code language, "DILQ" is written as "FKNS" and "SBGK" is written as "UDIM".  
How will "FORA" be written in that language?

Ans  1. GRTD

2. HQTC

3. HRSC

4. GPSD

Question ID : 264330130329  
Option 1 ID : 264330510430  
Option 2 ID : 264330510428  
Option 3 ID : 264330510427  
Option 4 ID : 264330510429  
Status : Answered  
Chosen Option : 2

Q.17 In a certain code language, 'LIGHTS' is written as '93' and 'BATTER' is written as '102'. How will 'BRING' be written in that language?

Ans  1. 95

2. 85

3. 90

4. 63

Question ID : 264330144557  
Option 1 ID : 264330566484  
Option 2 ID : 264330566486  
Option 3 ID : 264330566485  
Option 4 ID : 264330566483  
Status : Not Answered  
Chosen Option : --

Q.18 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.  
17 : 374 :: 14 : ? :: 13 : 234

- Ans
- 1. 269
  - 2. 296
  - 3. 266
  - 4. 299

Question ID : 26433078939  
Option 1 ID : 264330309768  
Option 2 ID : 264330309769  
Option 3 ID : 264330309770  
Option 4 ID : 264330309771  
Status : Answered  
Chosen Option : 3

Q.19 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.  
3 : 20 :: 7 : ? :: 11 : 68

- Ans
- 1. 39
  - 2. 41
  - 3. 37
  - 4. 44

Question ID : 264330126045  
Option 1 ID : 264330493852  
Option 2 ID : 264330493854  
Option 3 ID : 264330493855  
Option 4 ID : 264330493853  
Status : Answered  
Chosen Option : 4

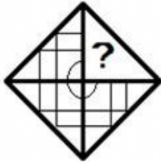
Q.20 A & B means 'A is the wife of B'.  
A # B means 'A is the father of B'.  
A @ B means 'A is the Son B'.  
A % B means 'A is the husband of B'.  
A + B means 'A is the mother of B'.  
If A & B # C & D @ E % F + G, then how is C related to G?

- Ans
- 1. Father's mother
  - 2. Brother's wife
  - 3. Sister
  - 4. Mother

Question ID : 264330144544  
Option 1 ID : 264330566433  
Option 2 ID : 264330566431  
Option 3 ID : 264330566432  
Option 4 ID : 264330566434  
Status : Answered  
Chosen Option : 2



Q.21 Select the figure from the options that can replace the question mark (?) and complete the given pattern.



Ans



Question ID : 26433074803  
 Option 1 ID : 264330293300  
 Option 2 ID : 264330293301  
 Option 3 ID : 264330293302  
 Option 4 ID : 264330293303  
 Status : Answered  
 Chosen Option : 3

Q.22 Which of the following options will replace the question mark (?) in the given series?

$$\frac{1}{289}, \frac{1}{17}, ?, 17$$

Ans

✗ 1.  $\frac{1}{34}$

2. 1

✗ 3.  $\frac{1}{119}$

✗ 4.  $\frac{1}{85}$

Question ID : 26433091641  
 Option 1 ID : 264330359931  
 Option 2 ID : 264330359932  
 Option 3 ID : 264330359929  
 Option 4 ID : 264330359930  
 Status : Answered  
 Chosen Option : 2

Q.23 If A denotes '+', B denotes 'x', C denotes '-', and D denotes '÷', then what will come in place of '?' in the following equation?  
89 C 8 A ( 18 B 2 ) D 4 = ?

- Ans
- 1. 89
  - 2. 81
  - 3. 146
  - 4. 90

Question ID : 26433067679  
Option 1 ID : 264330265228  
Option 2 ID : 264330265229  
Option 3 ID : 264330265231  
Option 4 ID : 264330265230  
Status : Answered  
Chosen Option : 4

Q.24 उस सही विकल्प का चयन करें, जो निम्नलिखित शब्दों के तार्किक और सार्थक क्रम में व्यवस्थापन को इंगित करता है।

1. शोल्फ
2. लकड़ी
3. तख्ता
4. वृक्ष
5. कपबोर्ड

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

Question ID : 264330131593  
Option 1 ID : 264330515473  
Option 2 ID : 264330515474  
Option 3 ID : 264330515471  
Option 4 ID : 264330515472  
Status : Answered  
Chosen Option : 4

Q.25 Which letter-cluster will replace the question mark (?) to complete the given series?

TTIR, PHMJ, LVQB, ?, DXYL

- Ans
- 1. GJUT
  - 2. GKUT
  - 3. HKUT
  - 4. HJUT

Question ID : 264330144621  
Option 1 ID : 264330566740  
Option 2 ID : 264330566742  
Option 3 ID : 264330566741  
Option 4 ID : 264330566739  
Status : Answered  
Chosen Option : 4

Q.26 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.  
A \_ \_ J L \_ D G \_ L A D \_ J \_ A D \_ \_ L

- Ans
- 1. D G A L G L G J
  - 2. D G A J G L G J
  - 3. D A G J G L G L
  - 4. D G A L G J G J

Question ID : 26433068917  
 Option 1 ID : 264330270182  
 Option 2 ID : 264330270181  
 Option 3 ID : 264330270183  
 Option 4 ID : 264330270180  
 Status : Answered  
 Chosen Option : 2

Q.27 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

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

Question ID : 264330126086  
 Option 1 ID : 264330494019  
 Option 2 ID : 264330494017  
 Option 3 ID : 264330494016  
 Option 4 ID : 264330494018  
 Status : Answered  
 Chosen Option : 3

Q.28 उस शब्द युग्म का चयन कीजिए, जिसमें दिए गए दोनों शब्द एक दूसरे से उसी तरह से संबंधित हैं, जिस तरह दिए गए युग्म के दोनों शब्द एक दूसरे से संबंधित हैं।  
(शब्दों पर सार्थक शब्द के रूप में विचार किया जाना चाहिए, और वे शब्द, शब्द में अक्षरों/व्यंजनों/स्वरों की संख्या के आधार पर एक दूसरे से संबंधित नहीं होने चाहिए।)  
भूकंप विज्ञान (Seismology) : भूकंप (Earthquake)

- Ans
- 1. वर्गीकरण विज्ञान (Taxonomy) : कराधान (Taxation)
  - 2. उभयसृपविज्ञान (Herpetology) : उभयचर (Amphibians)
  - 3. फिजियोलॉजी (Physiology) : भौतिकी (Physics)
  - 4. रुधिरविज्ञान (Haematology) : हाइड्रोजन (Hydrogen)

Question ID : 264330117395  
Option 1 ID : 264330461623  
Option 2 ID : 264330461621  
Option 3 ID : 264330461624  
Option 4 ID : 264330461622  
Status : Answered  
Chosen Option : 2

Q.29 Which letter cluster will replace the question mark (?) to complete the given series?

MKXB, OOAC, QSDD, ?

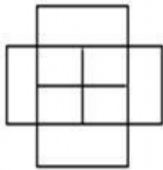
- Ans
- 1. SWHE
  - 2. SWGE
  - 3. SWHF
  - 4. SWGF

Question ID : 264330144645  
Option 1 ID : 264330566837  
Option 2 ID : 264330566838  
Option 3 ID : 264330566835  
Option 4 ID : 264330566836  
Status : Answered  
Chosen Option : 2

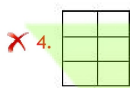
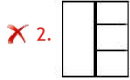
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Q.30 Select the option that is embedded in the given figure (rotation is NOT allowed).

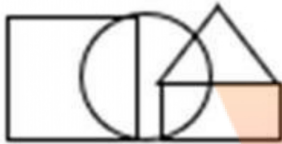


Ans

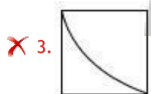


Question ID : 26433058113  
 Option 1 ID : 264330227436  
 Option 2 ID : 264330227438  
 Option 3 ID : 264330227437  
 Option 4 ID : 264330227439  
 Status : Answered  
 Chosen Option : 3

Q.31 Select the option that is embedded in the given figure (rotation is NOT allowed).



Ans



Question ID : 26433058111  
 Option 1 ID : 264330227428  
 Option 2 ID : 264330227431  
 Option 3 ID : 264330227430  
 Option 4 ID : 264330227429  
 Status : Answered  
 Chosen Option : 1

Q.32 Which two signs should be interchanged to make the given equation correct?

$$11 - 8 + 78 \div 6 \times 37 = 64$$

- Ans
- 1.  $\div$  and  $-$
  - 2.  $-$  and  $\times$
  - 3.  $\div$  and  $\times$
  - 4.  $\times$  and  $+$

Question ID : 264330129536  
Option 1 ID : 264330507510  
Option 2 ID : 264330507513  
Option 3 ID : 264330507511  
Option 4 ID : 264330507512  
Status : Answered  
Chosen Option : 2

Q.33 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 third to the right of Suman?

- Ans
- 1. Kiran
  - 2. Vyom
  - 3. Pran
  - 4. Samir

Question ID : 264330144639  
Option 1 ID : 264330566812  
Option 2 ID : 264330566814  
Option 3 ID : 264330566813  
Option 4 ID : 264330566811  
Status : Answered  
Chosen Option : 3

Q.34 Daisy starts walking from her house and goes 20 m west. From there she turns right and walks a certain distance called P m. Then she turns right and walks 30 m. She turns right again and walks 40 m. After that, she takes a final right turn and walks 10 m. If Daisy's current position is 5 m south of her home, then what is the value of P?

- Ans
- 1. 35
  - 2. 40
  - 3. 45
  - 4. 15

Question ID : 264330129773  
Option 1 ID : 264330508325  
Option 2 ID : 264330508323  
Option 3 ID : 264330508326  
Option 4 ID : 264330508324  
Status : Answered  
Chosen Option : 1

Q.35 Each of the seven friends, Misha, Minshu, Mohi, Priya, Veer, Pari and Krishi, has a different height. Krishi is taller than only three people. Pari is taller than only Veer. Misha is taller than Minshu but not Mohi. Priya is taller than Mohi.

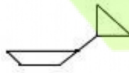
Who is tallest among them?

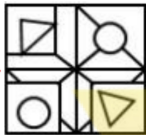
- Ans
- 1. Krishi
  - 2. Mohi
  - 3. Minshu
  - 4. Priya

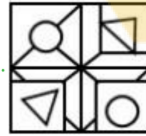
Question ID : 264330144635  
 Option 1 ID : 264330566798  
 Option 2 ID : 264330566797  
 Option 3 ID : 264330566795  
 Option 4 ID : 264330566796  
 Status : Answered  
 Chosen Option : 4

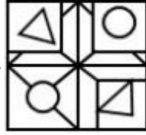
Q.36 Select the option in which the given figure is embedded (rotation is NOT allowed).

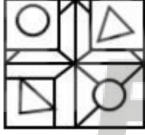
Ans



1. 

2. 

3. 

4. 

Question ID : 264330126085  
 Option 1 ID : 264330494012  
 Option 2 ID : 264330494015  
 Option 3 ID : 264330494014  
 Option 4 ID : 264330494013  
 Status : Answered  
 Chosen Option : 2

Q.37 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.  
R \_ \_ K U \_ I N \_ U R I \_ K \_ R I \_ \_ U

- Ans
- ✓ 1. INRKNUNK
  - ✗ 2. INRKNUUK
  - ✗ 3. INKRNUNK
  - ✗ 4. INRKUNNK

Question ID : 26433068920  
Option 1 ID : 264330270194  
Option 2 ID : 264330270195  
Option 3 ID : 264330270193  
Option 4 ID : 264330270192  
Status : Answered  
Chosen Option : 1

Q.38 A man departs from his house and walks 10 m towards north. He then turns left and walks 15 m. Now, he turns right and walks 7 m and stops. A pole is placed exactly 15 m east from where he stands. How far and in which direction is his house from the pole? (Assuming that all turns are 90 degree turns only.)

- Ans
- ✗ 1. 27 m, north
  - ✗ 2. 7 m, north
  - ✓ 3. 17 m, south
  - ✗ 4. 15 m, south

Question ID : 264330129766  
Option 1 ID : 264330508298  
Option 2 ID : 264330508295  
Option 3 ID : 264330508297  
Option 4 ID : 264330508296  
Status : Answered  
Chosen Option : 3

Q.39 Arrange the following words in a logical and meaningful order.

1. Quadrilateral
2. Heptagon
3. Pentagon
4. Hexadecagon
5. Dodecagon

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

Question ID : 26433081458  
Option 1 ID : 264330319666  
Option 2 ID : 264330319667  
Option 3 ID : 264330319665  
Option 4 ID : 264330319668  
Status : Answered  
Chosen Option : 1

Q.40 In a certain code language, 'PETS' is coded as '48', and 'FARM' is coded as '70'. How will 'DAIRY' be coded in that language?

- Ans  1. 78  
 2. 22  
 3. 74  
 4. 47

Question ID : 264330144594  
Option 1 ID : 264330566631  
Option 2 ID : 264330566634  
Option 3 ID : 264330566633  
Option 4 ID : 264330566632  
Status : Not Answered  
Chosen Option : --

Q.41 Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

10 : 7 :: ? : 12 :: 32 : 18

- Ans  1. 22  
 2. 20  
 3. 18  
 4. 15

Question ID : 264330144434  
Option 1 ID : 264330565994  
Option 2 ID : 264330565992  
Option 3 ID : 264330565993  
Option 4 ID : 264330565991  
Status : Answered  
Chosen Option : 2

Q.42 Ten people are sitting in two parallel rows containing 5 people each, in such a way that there is equal distance between adjacent persons.  
In Row 1 – A, B, C, D and E are seated and all of them are facing the south.  
In Row 2 – P, Q, R, S and T are seated and all of them are facing the north.  
Thus, each person is facing another person from the other row.  
B is sitting third to the left of A. P is facing an immediate neighbour of A. Q is sitting third to the right of P. C is facing S. D is sitting second to the right of the person who is facing T.  
Who amongst the following is NOT sitting at any of the extreme ends of the row?

- Ans  1. Q  
 2. C  
 3. R  
 4. E

Question ID : 264330131651  
Option 1 ID : 264330515703  
Option 2 ID : 264330515706  
Option 3 ID : 264330515705  
Option 4 ID : 264330515704  
Status : Answered  
Chosen Option : 2



Q.43 If '+' means '×', '×' means '+', '+' means '+', then what will come in place of the question mark (?) in the following equation?  
 $41 + 18 - 7 + 322 \times 23 = ?$

- Ans
- 1. 167
  - 2. 169
  - 3. 144
  - 4. 153

Question ID : 264330126064  
Option 1 ID : 264330493930  
Option 2 ID : 264330493931  
Option 3 ID : 264330493928  
Option 4 ID : 264330493929  
Status : Answered  
Chosen Option : 4

Q.44 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.  
L \_ M B \_ \_ G M \_ O L \_ M B O

- Ans
- 1. GOLBG
  - 2. MGBLB
  - 3. GLOBG
  - 4. BGLOM

Question ID : 26433086965  
Option 1 ID : 264330341502  
Option 2 ID : 264330341504  
Option 3 ID : 264330341503  
Option 4 ID : 264330341501  
Status : Answered  
Chosen Option : 1

Q.45 Select the number from among the given options that can replace the question mark (?) in the following series.  
1, 6, 28, 71, 139, 236, ?

- Ans
- 1. 335
  - 2. 333
  - 3. 366
  - 4. 363

Question ID : 26433079010  
Option 1 ID : 264330310047  
Option 2 ID : 264330310046  
Option 3 ID : 264330310045  
Option 4 ID : 264330310044  
Status : Not Answered  
Chosen Option : --

Q.46 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/numbers of consonants/vowels in the word)  
INDIA : NEW DELHI

- Ans
- 1. UP : LUCKNOW
  - 2. RUSSIA : MOSCOW
  - 3. SIKKIM : GANGTOK
  - 4. WEST BENGAL : KOLKATA

Question ID : 264330144613  
Option 1 ID : 264330566707  
Option 2 ID : 264330566708  
Option 3 ID : 264330566710  
Option 4 ID : 264330566709  
Status : Answered  
Chosen Option : 2

Q.47 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?

54 : 3 :: ? : 9 :: 432 : 6

- Ans
- 1. 477
  - 2. 1458
  - 3. 1089
  - 4. 729

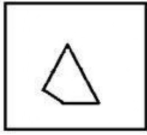
Question ID : 264330144871  
Option 1 ID : 264330567739  
Option 2 ID : 264330567742  
Option 3 ID : 264330567740  
Option 4 ID : 264330567741  
Status : Answered  
Chosen Option : 2

Q.48 A is B's wife. F is the grandson of B. D is the father of F. C is A's daughter. How is F related to C?

- Ans
- 1. Mother
  - 2. Brother
  - 3. Mother's sister
  - 4. Brother's son

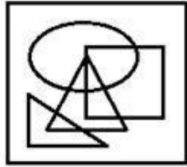
Question ID : 26433089522  
Option 1 ID : 264330351591  
Option 2 ID : 264330351592  
Option 3 ID : 264330351589  
Option 4 ID : 264330351590  
Status : Answered  
Chosen Option : 4

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

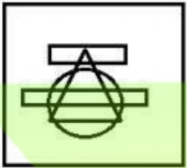


Ans

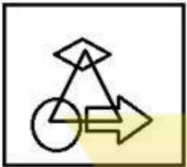
✓ 1.



✗ 2.



✗ 3.



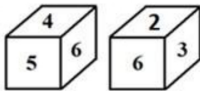
✗ 4.



Question ID : 26433068172  
Option 1 ID : 264330267201  
Option 2 ID : 264330267203  
Option 3 ID : 264330267200  
Option 4 ID : 264330267202  
Status : Answered  
Chosen Option : 1

EAD GROUP

Q.50 Two dimensions of the same dice are given below. Which of the following faces is opposite to the face having digit 3?



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

Question ID : 26433069249  
Option 1 ID : 264330271508  
Option 2 ID : 264330271511  
Option 3 ID : 264330271510  
Option 4 ID : 264330271509  
Status : Answered  
Chosen Option : 3

Section : General Awareness

Q.1 Arjun Singh Dhurve, a Baiga folk dance teacher received the Padma Shri in 2021-22. To which state do the Baigas mainly belong?

- Ans
- 1. Gujarat
  - 2. Madhya Pradesh
  - 3. Maharashtra
  - 4. Chhattisgarh

Question ID : 26433064804  
Option 1 ID : 264330253808  
Option 2 ID : 264330253809  
Option 3 ID : 264330253810  
Option 4 ID : 264330253811  
Status : Not Answered  
Chosen Option : --

Q.2 Which of the following diseases is caused by Rhino viruses?

- Ans
- 1. Malaria
  - 2. Ascariasis
  - 3. Common cold
  - 4. Amoebiasis

Question ID : 264330113325  
Option 1 ID : 264330445385  
Option 2 ID : 264330445387  
Option 3 ID : 264330445388  
Option 4 ID : 264330445386  
Status : Not Answered  
Chosen Option : --

Q.3 R-X is the general formula of which functional group in which one or more hydrogen atoms are replaced by Group 17 elements?

- Ans  1. Alkyl halides  
 2. Amide  
 3. Imines  
 4. Nitrile

Question ID : 264330114592  
Option 1 ID : 264330450456  
Option 2 ID : 264330450453  
Option 3 ID : 264330450454  
Option 4 ID : 264330450455  
Status : Answered  
Chosen Option : 1

Q.4 The Prime Minister's Employment Generation Programme (PMEGP) was launched by which Ministry of the Government of India during 2008-09?

- Ans  1. Ministry of Micro, Small and Medium Enterprises  
 2. Ministry of Home Affairs  
 3. Ministry of Skill Development and Entrepreneurship  
 4. Ministry of Agriculture and Farmers Welfare

Question ID : 264330113303  
Option 1 ID : 264330445298  
Option 2 ID : 264330445300  
Option 3 ID : 264330445299  
Option 4 ID : 264330445297  
Status : Answered  
Chosen Option : 3

Q.5 Manoj Sinha, who is the second Lieutenant Governor of the Union territory of Jammu and Kashmir, hails from \_\_\_\_\_.

- Ans  1. Madhya Pradesh  
 2. Uttar Pradesh  
 3. Odisha  
 4. Jharkhand

Question ID : 264330132584  
Option 1 ID : 264330519434  
Option 2 ID : 264330519433  
Option 3 ID : 264330519431  
Option 4 ID : 264330519432  
Status : Answered  
Chosen Option : 2



Q.6 The White Paper on the five themes of Youth20 (Y20) was launched by \_\_\_\_\_ in Guwahati in February 2023.

- Ans
- 1. Amit Shah
  - 2. Piyush Goyal
  - 3. Anurag Thakur
  - 4. Nitin Gadkari

Question ID : 264330132615  
Option 1 ID : 264330519558  
Option 2 ID : 264330519557  
Option 3 ID : 264330519555  
Option 4 ID : 264330519556  
Status : Not Answered  
Chosen Option : --

Q.7 The Gram Nyayalay Act was passed in the year \_\_\_\_\_.

- Ans
- 1. 1992
  - 2. 1996
  - 3. 2008
  - 4. 2006

Question ID : 264330130482  
Option 1 ID : 264330511042  
Option 2 ID : 264330511040  
Option 3 ID : 264330511041  
Option 4 ID : 264330511039  
Status : Not Answered  
Chosen Option : --

Q.8 Which vitamin deficiency in the diet causes Korsakoff syndrome, a chronic memory disorder that damages your brain?

- Ans
- 1. Tocopherol
  - 2. Phyloquinone
  - 3. Thiamine
  - 4. Niacin

Question ID : 264330130990  
Option 1 ID : 264330513072  
Option 2 ID : 264330513074  
Option 3 ID : 264330513071  
Option 4 ID : 264330513073  
Status : Not Answered  
Chosen Option : --

Q.9 Heal in India is an initiative of the Indian Government aimed at promoting \_\_\_\_\_ in the country.

- Ans
- 1. yoga
  - 2. spiritual healing
  - 3. medical tourism
  - 4. spiritual enlightenment

Question ID : 264330158454  
Option 1 ID : 264330621178  
Option 2 ID : 264330621177  
Option 3 ID : 264330621175  
Option 4 ID : 264330621176  
Status : Answered  
Chosen Option : 1

Q.10 In which form have earth forming materials been distributed?

- Ans
- 1. Parts
  - 2. Clusters
  - 3. Layers
  - 4. Regions

Question ID : 264330113355  
Option 1 ID : 264330445505  
Option 2 ID : 264330445507  
Option 3 ID : 264330445506  
Option 4 ID : 264330445508  
Status : Not Answered  
Chosen Option : --

Q.11 Pandit Shiv Kumar Sharma, a renowned instrumentalist, published which of the following books as his autobiography?

- Ans
- 1. Raag Mala
  - 2. My Life My Music
  - 3. Yours in Music
  - 4. Journey with a Hundred Strings: My Life in Music

Question ID : 26433071511  
Option 1 ID : 264330280471  
Option 2 ID : 264330280469  
Option 3 ID : 264330280468  
Option 4 ID : 264330280470  
Status : Answered  
Chosen Option : 2

Q.12 The second five-year plan introduced to the concept of public sector of state-run enterprises based on the \_\_\_\_\_ model of industrialisation.

- Ans
- 1. Russian
  - 2. French
  - 3. German
  - 4. Japanese

Question ID : 264330144401  
Option 1 ID : 264330565861  
Option 2 ID : 264330565860  
Option 3 ID : 264330565859  
Option 4 ID : 264330565862  
Status : Not Answered  
Chosen Option : --

Q.13 The Central Board of Direct Taxes (CBDT) has implemented the Income-tax (25th Amendment) Rule 2021 which states that any interest accrued in a PF account for contributions of more than \_\_\_\_\_ per financial year will be taxed.

- Ans
- 1. 7.5 lakhs
  - 2. 10 lakhs
  - 3. 5 lakhs
  - 4. 2.5 lakhs

Question ID : 264330156929  
Option 1 ID : 264330615093  
Option 2 ID : 264330615094  
Option 3 ID : 264330615092  
Option 4 ID : 264330615091  
Status : Not Answered  
Chosen Option : --

Q.14 Which iron and steel plant was established near the confluence of the rivers Subarnarekha and Kharkai?

- Ans
- 1. Bhilai Steel Plant
  - 2. Bokaro Steel Plant
  - 3. Tata Iron and Steel Company Limited
  - 4. Indian Iron and Steel Company Limited

Question ID : 264330113272  
Option 1 ID : 264330445173  
Option 2 ID : 264330445176  
Option 3 ID : 264330445174  
Option 4 ID : 264330445175  
Status : Not Answered  
Chosen Option : --

Q.15 According to NITI Aayog's Multidimensional Poverty Index (MPI) based on NFHS-4 (2015-16), 51.91 per cent of the population of which state is multidimensionally poor?

- Ans
- 1. Arunachal Pradesh
  - 2. Meghalaya
  - 3. Bihar
  - 4. Uttar Pradesh

Question ID : 264330111354  
Option 1 ID : 264330437503  
Option 2 ID : 264330437502  
Option 3 ID : 264330437504  
Option 4 ID : 264330437501  
Status : Not Answered  
Chosen Option : --

Q.16 These volcanoes are mostly made up of basalt, a type of lava that is very fluid when erupted. For this reason, these volcanoes are not steep.  
Which of the following volcano is an example of the above given type of volcano?

- Ans
- 1. Mount Rainier Volcano
  - 2. Hawaiian Volcano
  - 3. Mayon Volcano
  - 4. Mount Shasta Volcano

Question ID : 26433055828  
Option 1 ID : 264330218296  
Option 2 ID : 264330218297  
Option 3 ID : 264330218299  
Option 4 ID : 264330218298  
Status : Not Answered  
Chosen Option : --

Q.17 Which 19<sup>th</sup> century German chemist visualised the ring structure of benzene in 1865?

- Ans
- 1. Robert Bunsen
  - 2. Marguerite Perrey
  - 3. Emil Fischer
  - 4. Friedrich August Kekule

Question ID : 264330141681  
Option 1 ID : 264330555045  
Option 2 ID : 264330555043  
Option 3 ID : 264330555044  
Option 4 ID : 264330555046  
Status : Not Answered  
Chosen Option : --

Q.18 What are thunderstorms in Assam during the month of 'Baisakhi' called?

- Ans
- 1. Barfoisila
  - 2. Ghorisila
  - 3. Kal Baisakhi
  - 4. Nor Westers

Question ID : 264330134899  
Option 1 ID : 264330528534  
Option 2 ID : 264330528533  
Option 3 ID : 264330528532  
Option 4 ID : 264330528531  
Status : Answered  
Chosen Option : 3

Q.19 The idea of 'Fundamental Rights' was taken from the constitution of which of the following countries?

- Ans
- 1. Constitution of the Ireland
  - 2. Constitution of Switzerland
  - 3. Constitution of the United States
  - 4. Constitution of France

Question ID : 26433089947  
Option 1 ID : 264330353265  
Option 2 ID : 264330353268  
Option 3 ID : 264330353266  
Option 4 ID : 264330353267  
Status : Answered  
Chosen Option : 3

Q.20 Which of the following is NOT a former name of Lakshadweep?

- Ans
- 1. Amindivi Island
  - 2. Kavaratti Island
  - 3. Minicoy Island
  - 4. Laccadive Island

Question ID : 26433071615  
Option 1 ID : 264330280887  
Option 2 ID : 264330280884  
Option 3 ID : 264330280886  
Option 4 ID : 264330280885  
Status : Answered  
Chosen Option : 2

Q.21 Bishop is used in which of the following games?

- Ans
- 1. Badminton
  - 2. Cricket
  - 3. Billiards
  - 4. Chess

Question ID : 264330109735  
Option 1 ID : 264330431219  
Option 2 ID : 264330431218  
Option 3 ID : 264330431220  
Option 4 ID : 264330431217  
Status : Answered  
Chosen Option : 3

Q.22 Which of the following is a rabi crop?

- Ans
- 1. Wheat
  - 2. Maize
  - 3. Groundnut
  - 4. Watermelon

Question ID : 264330130575  
Option 1 ID : 264330511414  
Option 2 ID : 264330511412  
Option 3 ID : 264330511413  
Option 4 ID : 264330511411  
Status : Answered  
Chosen Option : 2

Q.23 Who was responsible for causing the partition of Bengal?

- Ans
- 1. Lord Curzon
  - 2. Lord Dufferin
  - 3. Lord Wellesly
  - 4. Lord Lytton

Question ID : 264330109035  
Option 1 ID : 264330428417  
Option 2 ID : 264330428419  
Option 3 ID : 264330428418  
Option 4 ID : 264330428420  
Status : Answered  
Chosen Option : 1

Q.24 Which of the following is an example of good netiquette when participating in online discussion or forums?

- Ans
- 1. Attacking other users
  - 2. Posting irrelevant or off-topic comments
  - 3. Reading the discussion thread before posting to avoid repeating previous points
  - 4. Using all caps

Question ID : 264330168573  
Option 1 ID : 264330661105  
Option 2 ID : 264330661104  
Option 3 ID : 264330661106  
Option 4 ID : 264330661103  
Status : Not Answered  
Chosen Option : --

Q.25 A provision has been inserted to empower the Assessing Officer to require a \_\_\_\_\_ for inventory valuation before tax assessment in case of appeals as per Finance Bill 2023.

- Ans
- 1. legal audit
  - 2. cost audit
  - 3. secretarial audit
  - 4. statutory audit

Question ID : 264330156939  
Option 1 ID : 264330615133  
Option 2 ID : 264330615132  
Option 3 ID : 264330615131  
Option 4 ID : 264330615134  
Status : Not Answered  
Chosen Option : --

Q.26 According to Koeppen's Scheme of climate division of India, match the following climates of India with their respective regions.

Climate	Region
1. Cold humid winter with short summer	a. Coromandel coast of Tamil Nadu
2. Hot desert	b. Arunachal Pradesh
3. Monsoon with dry summer	c. Extreme Western Rajasthan

- Ans
- 1. 1-b, 2-c, 3-a
  - 2. 1-a, 2-c, 3-b
  - 3. 1-b, 2-a, 3-c
  - 4. 1-c, 2-b, 3-a

Question ID : 264330132723  
Option 1 ID : 264330519987  
Option 2 ID : 264330519990  
Option 3 ID : 264330519989  
Option 4 ID : 264330519988  
Status : Answered  
Chosen Option : 2



Q.27 Which Act abolished the powers so long enjoyed by the Board of Control?

- Ans
- 1. Act of 1853
  - 2. Act of 1813
  - 3. Act of 1858
  - 4. Act of 1786

Question ID : 264330112160  
Option 1 ID : 264330440728  
Option 2 ID : 264330440726  
Option 3 ID : 264330440725  
Option 4 ID : 264330440727  
Status : Answered  
Chosen Option : 2

Q.28 In which of the following dance forms the faces of dancers are made up to look like painted masks and the costume consists of a full skirt, a heavy jacket, numerous garlands and necklaces and a towering headdress?

- Ans
- 1. Kathakali
  - 2. Odissi
  - 3. Kathak
  - 4. Mohiniyattam

Question ID : 264330130865  
Option 1 ID : 264330512572  
Option 2 ID : 264330512574  
Option 3 ID : 264330512571  
Option 4 ID : 264330512573  
Status : Answered  
Chosen Option : 4

Q.29 Plants of which family have a highly compressed inflorescence branching system called a capitulum or flower head in which all the flowers are attached to a receptacle surrounded by unbranched bracts?

- Ans
- 1. Ranunculaceae
  - 2. Sapindaceae
  - 3. Ericaceae
  - 4. Asteraceae

Question ID : 264330130983  
Option 1 ID : 264330513046  
Option 2 ID : 264330513043  
Option 3 ID : 264330513044  
Option 4 ID : 264330513045  
Status : Not Answered  
Chosen Option : --

Q.30 The 11<sup>th</sup> Fundamental Duty was added to the Constitution of India by the \_\_\_\_\_ Constitutional Amendment Act.

- Ans
- 1. 86<sup>th</sup>
  - 2. 88<sup>th</sup>
  - 3. 83<sup>rd</sup>
  - 4. 81<sup>st</sup>

Question ID : 264330130444  
Option 1 ID : 264330510889  
Option 2 ID : 264330510890  
Option 3 ID : 264330510888  
Option 4 ID : 264330510887  
Status : Answered  
Chosen Option : 1

Q.31 At maturity, \_\_\_\_\_ is a non-conductive cell composed of heavily thick-walled dead cells with lignin and high cellulose content (60%–80%), and it serves to provide structural support in plants.

- Ans
- 1. sclerenchyma cell
  - 2. reproductive cell
  - 3. meristematic cell
  - 4. parenchyma cell

Question ID : 264330110079  
Option 1 ID : 264330432594  
Option 2 ID : 264330432596  
Option 3 ID : 264330432593  
Option 4 ID : 264330432595  
Status : Not Answered  
Chosen Option : --

Q.32 The Bhitari Pillar inscription of which Gupta ruler narrates his right with the Pushyamitras?

- Ans
- 1. Chandragupta II
  - 2. Skandagupta
  - 3. Chandragupta I
  - 4. Samudragupta

Question ID : 264330112139  
Option 1 ID : 264330440643  
Option 2 ID : 264330440644  
Option 3 ID : 264330440642  
Option 4 ID : 264330440641  
Status : Not Answered  
Chosen Option : --

Q.33 Famous musician Ustad Amjad Ali Khan was born in 1945 in \_\_\_\_\_.

- Ans
- 1. Gwalior
  - 2. Lucknow
  - 3. Jhansi
  - 4. Agra

Question ID : 26433082115  
Option 1 ID : 264330322294  
Option 2 ID : 264330322296  
Option 3 ID : 264330322293  
Option 4 ID : 264330322295  
Status : Answered  
Chosen Option : 1

Q.34 What does the word Gopuram mean in the context of temple architecture of South India?

- Ans  1. Entrance gateway in front wall of the temple  
 2. Platform of the temple to place deity  
 3. Place to keep cows near the temple  
 4. Top edge of the shikhara of the temple

Question ID : 26433071466  
Option 1 ID : 264330280291  
Option 2 ID : 264330280288  
Option 3 ID : 264330280290  
Option 4 ID : 264330280289  
Status : Not Answered  
Chosen Option : --

Q.35 Which of the following is NOT an Alicyclic compound?

- Ans  1. Cyclohexane  
 2. Cyclohexene  
 3. Isobutane  
 4. Cyclopropane

Question ID : 264330131689  
Option 1 ID : 264330515857  
Option 2 ID : 264330515858  
Option 3 ID : 264330515855  
Option 4 ID : 264330515856  
Status : Answered  
Chosen Option : 2

Q.36 NABARD came into being in 1982. With how much initial capital was it set up?

- Ans  1. ₹150 crore  
 2. ₹200 crore  
 3. ₹100 crore  
 4. ₹50 crore

Question ID : 264330109364  
Option 1 ID : 264330429735  
Option 2 ID : 264330429736  
Option 3 ID : 264330429734  
Option 4 ID : 264330429733  
Status : Not Answered  
Chosen Option : --

Q.37 The salary and allowance of the Prime Minister of India is determined by the \_\_\_\_\_.

- Ans  1. Cabinet Secretariat  
 2. Parliament  
 3. PMO  
 4. President of India

Question ID : 264330120161  
Option 1 ID : 264330470902  
Option 2 ID : 264330470899  
Option 3 ID : 264330470901  
Option 4 ID : 264330470900  
Status : Answered  
Chosen Option : 2

Q.38 Identify the organism that does NOT belong to the first level trophic level.

- Ans
- 1. Grass
  - 2. Phytoplankton
  - 3. Zooplankton
  - 4. Trees

Question ID : 26433091485  
Option 1 ID : 264330359308  
Option 2 ID : 264330359305  
Option 3 ID : 264330359306  
Option 4 ID : 264330359307  
Status : Not Answered  
Chosen Option : --

Q.39 \_\_\_\_\_ will be declared if the umpire thinks the batsman did NOT have a reasonable opportunity to score off the delivery.

- Ans
- 1. Leg Bye
  - 2. No Ball
  - 3. Wide
  - 4. Bye

Question ID : 264330119285  
Option 1 ID : 264330467428  
Option 2 ID : 264330467429  
Option 3 ID : 264330467430  
Option 4 ID : 264330467427  
Status : Answered  
Chosen Option : 3

Q.40 Where can you find solid form of water?

- Ans
- 1. Polar region
  - 2. Forest
  - 3. Oceans
  - 4. Desert

Question ID : 26433064775  
Option 1 ID : 264330253693  
Option 2 ID : 264330253694  
Option 3 ID : 264330253695  
Option 4 ID : 264330253692  
Status : Answered  
Chosen Option : 1

Q.41 Who has cracked the Panini code in his thesis?

- Ans
- 1. Manish Mani Tiwari
  - 2. Rishi Rajpopat
  - 3. Prasann K. Sharma
  - 4. Udai Singh Kumawat

Question ID : 264330156961  
Option 1 ID : 264330615222  
Option 2 ID : 264330615220  
Option 3 ID : 264330615219  
Option 4 ID : 264330615221  
Status : Not Answered  
Chosen Option : --

Q.42 जब आप मूल प्राप्तकर्ता को पता चले बिना किसी अन्य को ईमेल की एक प्रति भेजना चाहते हैं तो किस फ़ील्ड का उपयोग किया जाना चाहिए?

- Ans  1. BCC  
 2. CC  
 3. To  
 4. From

Question ID : 264330168575  
Option 1 ID : 264330661113  
Option 2 ID : 264330661112  
Option 3 ID : 264330661111  
Option 4 ID : 264330661114  
Status : Answered  
Chosen Option : 1

Q.43 EV Ramaswamy Naicker founded the \_\_\_\_\_ Movement.

- Ans  1. Prarthana Samaj  
 2. Satyashodhak Samaj  
 3. Self-Respect  
 4. Ghadar

Question ID : 264330111417  
Option 1 ID : 264330437753  
Option 2 ID : 264330437755  
Option 3 ID : 264330437756  
Option 4 ID : 264330437754  
Status : Answered  
Chosen Option : 3

Q.44 Which of the following refers to the net money value of all the final goods and services produced by the normal residents of a country, during a period of one year?

- Ans  1. Net National Product at market price  
 2. Net National Product at factor cost  
 3. Gross National Product at market price  
 4. Gross National Product at factor cost

Question ID : 264330144404  
Option 1 ID : 264330565871  
Option 2 ID : 264330565872  
Option 3 ID : 264330565874  
Option 4 ID : 264330565873  
Status : Not Answered  
Chosen Option : --

Q.45 Which of the following terminologies describes the areas where ecological communities, ecosystems or biotic regions coincide?

- Ans  1. Ecocline  
 2. Ecotones  
 3. Permafrost  
 4. Benthos

Question ID : 264330110085  
Option 1 ID : 264330432619  
Option 2 ID : 264330432620  
Option 3 ID : 264330432618  
Option 4 ID : 264330432617  
Status : Not Answered  
Chosen Option : --

Q.46 Article 44 of the Indian Constitution is related to \_\_\_\_\_.

- Ans
- 1. living wage for workers
  - 2. equal justice and free legal aid
  - 3. uniform civil code for the citizens
  - 4. organisation of agriculture

Question ID : 264330111531  
Option 1 ID : 264330438210  
Option 2 ID : 264330438209  
Option 3 ID : 264330438211  
Option 4 ID : 264330438212  
Status : Answered  
Chosen Option : 3

Q.47 Identify an allotrope of carbon that is smooth and slippery.

- Ans
- 1. Lead
  - 2. Fullerene
  - 3. Diamond
  - 4. Graphite

Question ID : 264330134860  
Option 1 ID : 264330528375  
Option 2 ID : 264330528378  
Option 3 ID : 264330528377  
Option 4 ID : 264330528376  
Status : Answered  
Chosen Option : 4

Q.48 According to the Census of India 2011, which state is the most densely populated?

- Ans
- 1. Uttar Pradesh
  - 2. Kerala
  - 3. Haryana
  - 4. Bihar

Question ID : 264330157093  
Option 1 ID : 264330615744  
Option 2 ID : 264330615746  
Option 3 ID : 264330615743  
Option 4 ID : 264330615745  
Status : Answered  
Chosen Option : 4

Q.49 Al Biruni wrote famous book "Kitab ul Hind" in \_\_\_\_\_ language.

- Ans
- 1. Sanskrit
  - 2. Arabic
  - 3. Persian
  - 4. Mongolian

Question ID : 26433089869  
Option 1 ID : 264330352954  
Option 2 ID : 264330352955  
Option 3 ID : 264330352953  
Option 4 ID : 264330352956  
Status : Answered  
Chosen Option : 3

Q.50 According to Census of India 2011, how much per cent of the total population were Sikhs?

- Ans  1. 0.4%  
 2. 2.3%  
 3. 1.7%  
 4. 0.7%

Question ID : 264330116478  
Option 1 ID : 264330457999  
Option 2 ID : 264330457997  
Option 3 ID : 264330458000  
Option 4 ID : 264330457998  
Status : Not Answered  
Chosen Option : --

Section : General Engineering Electrical

Q.1 A 2500 watts refrigerator works for 4 hours per day. Find the total unit of electricity used in 40 days.

- Ans  1. 400000 units  
 2. 40 units  
 3. 400 units  
 4. 10 units

Question ID : 26433096417  
Option 1 ID : 264330378407  
Option 2 ID : 264330378408  
Option 3 ID : 264330378406  
Option 4 ID : 264330378405  
Status : Answered  
Chosen Option : 3

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Q.2 The height between the two supports of a transmission and distribution overhead line can be determined as:

Ans ✓ 1.

(Vertical distance between the higher height support point of the conductor and Lowest point of the conductor) – (Vertical distance between the lower height support point of the conductor and lowest point of the conductor)

✗ 2.

$\frac{1}{2} \times$  (Vertical distance between the higher height support point of the conductor and lowest point of the conductor)

✗ 3. (Vertical distance between the lower height support point of the conductor and Lowest point of the conductor) + (Vertical distance between the higher height support point of the conductor and lowest point of the conductor)

✗ 4.

$\frac{1}{2} \times$  (Vertical distance between the lower height support point of the conductor and lowest point of the conductor)

Question ID : 264330159789  
Option 1 ID : 264330626504  
Option 2 ID : 264330626506  
Option 3 ID : 264330626503  
Option 4 ID : 264330626505  
Status : Not Answered  
Chosen Option : --

Q.3 Which expression is right about EMF equation of a transformer if  $f$  = frequency,  $N_1$  = number of turns in primary,  $\phi_m$  = maximum flux in a core,  $A$  = iron area,  $B_m$  = maximum flux density?

Ans ✓ 1.  $E = 4.44fN_1\phi_m$

✗ 2.  $E = 4.44fN_1B_m$

✗ 3.  $E = 4.44fN_1\phi_m A$

✗ 4.  $E = 4fN_1\phi_m A$

Question ID : 264330162917  
Option 1 ID : 264330638984  
Option 2 ID : 264330638985  
Option 3 ID : 264330638983  
Option 4 ID : 264330638986  
Status : Answered  
Chosen Option : 1

Q.4 In the context of electromagnetic induction, if the magnetic fluxes of two coils oppose each other, then the connection is called \_\_\_\_\_.

- Ans
- 1. self-opposing
  - 2. series opposing
  - 3. mutually opposing
  - 4. parallel opposing

Question ID : 264330157620  
Option 1 ID : 264330617842  
Option 2 ID : 264330617839  
Option 3 ID : 264330617841  
Option 4 ID : 264330617840  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.5 The electrical pressure measured between any two points in an electrical circuit is called \_\_\_\_\_.

- Ans
- 1. resistivity
  - 2. voltage
  - 3. energy
  - 4. work done

Question ID : 264330157636  
Option 1 ID : 264330617906  
Option 2 ID : 264330617904  
Option 3 ID : 264330617903  
Option 4 ID : 264330617905  
Status : Answered  
Chosen Option : 2

Q.6 The load on the transformer changes every day, with a daily production of 120 kWh and a cumulative loss of 5 kWh. What is the all-day efficiency of the transformer?

- Ans
- 1. 95%
  - 2. 92%
  - 3. 90%
  - 4. 96%

Question ID : 264330162906  
Option 1 ID : 264330638941  
Option 2 ID : 264330638942  
Option 3 ID : 264330638940  
Option 4 ID : 264330638939  
Status : Answered  
Chosen Option : 4

Q.7 What is the function of the phosphor-coated screen in a CRT?

- Ans
- 1. It is the part that generates a beam of electrons
  - 2. It is the part that moves the direction of the electron beam
  - 3. It is the part that emits light
  - 4. It is the part that regulates the intensity of the electron beam

Question ID : 264330157574  
Option 1 ID : 264330617655  
Option 2 ID : 264330617657  
Option 3 ID : 264330617656  
Option 4 ID : 264330617658  
Status : Answered  
Chosen Option : 4

Q.8 A switched reluctance motor can produce torque at a speed \_\_\_\_\_.

- Ans
- 1. equal to synchronous speed
  - 2. triple than synchronous speed
  - 3. double than synchronous speed
  - 4. less than synchronous speed

Question ID : 264330164869  
Option 1 ID : 264330646605  
Option 2 ID : 264330646604  
Option 3 ID : 264330646603  
Option 4 ID : 264330646606  
Status : Not Answered  
Chosen Option : --

Q.9 The standard percentage of the tender amount for the security deposit is \_\_\_\_\_.

- Ans
- 1. 10
  - 2. 5
  - 3. 2.5
  - 4. 2

Question ID : 264330158173  
Option 1 ID : 264330620054  
Option 2 ID : 264330620053  
Option 3 ID : 264330620052  
Option 4 ID : 264330620051  
Status : Not Answered  
Chosen Option : --

Q.10 In case of magnetic circuits, the force that tends to create magnetic flux is called \_\_\_\_\_.

- Ans
- 1. absolute permeability
  - 2. reluctance
  - 3. MMF
  - 4. relative permeability

Question ID : 264330157666  
Option 1 ID : 264330618024  
Option 2 ID : 264330618023  
Option 3 ID : 264330618025  
Option 4 ID : 264330618026  
Status : Answered  
Chosen Option : 3

Q.11 Which phase of the project management lifecycle often takes the longest to wrap up?

- Ans
- 1. Estimation
  - 2. Conceptualisation
  - 3. Execution
  - 4. Planning

Question ID : 264330158177  
Option 1 ID : 264330620069  
Option 2 ID : 264330620068  
Option 3 ID : 264330620070  
Option 4 ID : 264330620067  
Status : Not Answered  
Chosen Option : --

Q.12 In case of thermal efficiency, by using which of the following relations can 1 KWh of electrical energy be converted into joules?

- Ans
- 1.  $1\text{kWh} = 3.6 \times 10^5 \text{ joules}$
  - 2.  $1\text{kWh} = 36 \times 10^6 \text{ joules}$
  - 3.  $1\text{kWh} = 36 \times 10^5 \text{ joules}$
  - 4.  $1\text{kWh} = 3.6 \times 10^3 \text{ joules}$

Question ID : 264330157608  
Option 1 ID : 264330617794  
Option 2 ID : 264330617791  
Option 3 ID : 264330617792  
Option 4 ID : 264330617793  
Status : Answered  
Chosen Option : 3

Q.13 Which of the following is a ferromagnetic material?

- Ans
- 1. Nickel
  - 2. Gold
  - 3. Water
  - 4. Oxygen

Question ID : 26433096880  
Option 1 ID : 264330380259  
Option 2 ID : 264330380257  
Option 3 ID : 264330380260  
Option 4 ID : 264330380258  
Status : Answered  
Chosen Option : 1

Q.14 The wavelength of a sodium vapour lamp is \_\_\_\_\_ .

- Ans  1. 589 nm  
 2. 254 nm  
 3. 326 nm  
 4. 673 nm

Question ID : 26433098205  
Option 1 ID : 264330385475  
Option 2 ID : 264330385473  
Option 3 ID : 264330385474  
Option 4 ID : 264330385476  
Status : Not Attempted and  
Marked For Review  
Chosen Option : --

Q.15 Which of the following statements is accurate regarding wires and cables?

- Ans  1. Wires are made by stranding together many cables.  
 2. Wires and cables are never insulated.  
 3. Wires and cables are the same thing.  
 4. Cables are made by stranding together many wires.

Question ID : 264330158152  
Option 1 ID : 264330619969  
Option 2 ID : 264330619970  
Option 3 ID : 264330619967  
Option 4 ID : 264330619968  
Status : Answered  
Chosen Option : 4

Q.16 A rectifier type instrument uses a bridge rectifier and has its scale calibrated in terms of rms value of a sine wave. It indicates a voltage of 3.33 V when measuring a voltage of a triangular wave shape. Calculate the peak value of the applied voltage?

- Ans  1. 6.66 Volts  
 2. 6 Volts  
 3. 9 Volts  
 4. 9.99 Volts

Question ID : 264330157586  
Option 1 ID : 264330617704  
Option 2 ID : 264330617703  
Option 3 ID : 264330617705  
Option 4 ID : 264330617706  
Status : Answered  
Chosen Option : 4

Q.17 The deflecting torque in a PMMC instrument is proportional to \_\_\_\_\_ .

- Ans  1. the current flowing through the coil  
 2. the area of the coil  
 3. the resistance of the coil  
 4. the square of the current flowing through the coil

Question ID : 264330157594  
Option 1 ID : 264330617737  
Option 2 ID : 264330617735  
Option 3 ID : 264330617736  
Option 4 ID : 264330617738  
Status : Answered  
Chosen Option : 4

Q.18 The split-phase induction motor is NOT used for drives that require more than \_\_\_\_\_.

- Ans
- 1. 100 KW
  - 2. 10 KW
  - 3. 1 KW
  - 4. 1000 KW

Question ID : 264330164886  
Option 1 ID : 264330646673  
Option 2 ID : 264330646672  
Option 3 ID : 264330646671  
Option 4 ID : 264330646674  
Status : Not Answered  
Chosen Option : --

Q.19 Which of the following is the correct expression for eddy current ( $W_e$ ) loss if  $B_{\max}$  = Maximum flux density,  $f$  = Frequency of magnetic reversal,  $t$  = Thickness of each lamination and  $V$  = Volume of the armature core?

- Ans
- 1.  $W_e = kB_{\max}^2 f^2 t V^2$  watts
  - 2.  $W_e = kB_{\max}^2 f^2 t^2 V^2$  watts
  - 3.  $W_e = kB_{\max}^2 f t^2 V^2$  watts
  - 4.  $W_e = kB_{\max}^2 f^2 t^2 V$  watts

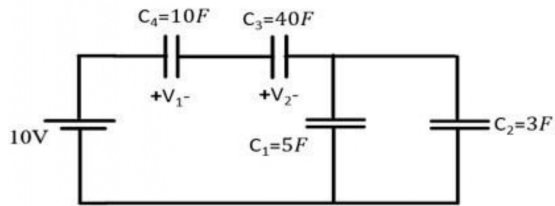
Question ID : 264330163301  
Option 1 ID : 264330640505  
Option 2 ID : 264330640504  
Option 3 ID : 264330640503  
Option 4 ID : 264330640506  
Status : Marked For Review  
Chosen Option : 4

Q.20 The phasing out test on a three-phase transformer is carried out to find \_\_\_\_\_.

- Ans
- 1. secondary winding belonging to a different phase
  - 2. primary and secondary windings belonging to a different phase
  - 3. primary and secondary windings belonging to the same phase
  - 4. primary winding belonging to the same phase

Question ID : 264330100798  
Option 1 ID : 264330395739  
Option 2 ID : 264330395740  
Option 3 ID : 264330395737  
Option 4 ID : 264330395738  
Status : Not Answered  
Chosen Option : --

Q.21 For the circuit shown below, the voltage across 10F and 40 F capacitors are:



- Ans
- 1. 1 V and 4 V, respectively
  - ✓ 2. 4 V and 1 V, respectively
  - 3. 400 V and 1600 V, respectively
  - 4. 10 V and 40 V, respectively

Question ID : 26433096396  
Option 1 ID : 264330378322  
Option 2 ID : 264330378321  
Option 3 ID : 264330378324  
Option 4 ID : 264330378323  
Status : Answered  
Chosen Option : 2

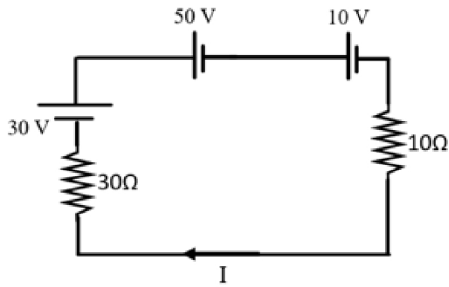
Q.22 An LC circuit with inductance  $L = 2\text{H}$  and capacitance  $C = 8\ \mu\text{F}$  is connected to an AC source. Find the value of the power factor of combination.

- Ans
- ✗ 1. 8
  - ✗ 2. 2
  - ✗ 3. 10
  - ✓ 4. 0

Question ID : 264330159512  
Option 1 ID : 264330625408  
Option 2 ID : 264330625409  
Option 3 ID : 264330625410  
Option 4 ID : 264330625407  
Status : Answered  
Chosen Option : 4

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Q.23 The value of the current I in the circuit is \_\_\_\_\_.



- Ans
- 1. 0.75 A
  - 2. -0.75 A
  - 3. 2.25 A
  - 4. -2.25 A

Question ID : 264330160215  
Option 1 ID : 264330628200  
Option 2 ID : 264330628199  
Option 3 ID : 264330628202  
Option 4 ID : 264330628201  
Status : Answered  
Chosen Option : 2

Q.24 In a capacitor-start capacitor-run induction motor, under standstill condition forward and backward voltages are \_\_\_\_\_.

- Ans
- 1. unequal in magnitude
  - 2. zero
  - 3. equal in magnitude
  - 4. infinite

Question ID : 26433099591  
Option 1 ID : 264330390979  
Option 2 ID : 264330390978  
Option 3 ID : 264330390977  
Option 4 ID : 264330390980  
Status : Answered  
Chosen Option : 3

Q.25 Which of the following overhead conductor materials is preferred for the harmful gas (like ammonia) atmosphere?

- Ans
- 1. Galvanized steel
  - 2. Cadmium copper
  - 3. Aluminium
  - 4. Phosphor bronze

Question ID : 264330159734  
Option 1 ID : 264330626291  
Option 2 ID : 264330626293  
Option 3 ID : 264330626294  
Option 4 ID : 264330626292  
Status : Answered  
Chosen Option : 1

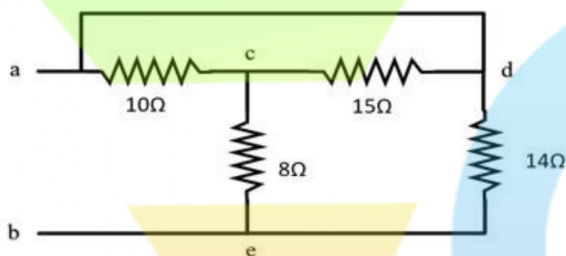


Q.26 For an AC circuit, the voltage and the current are given as  $V = (100 + j10)$  V and  $I = (20 - j10)$  A, respectively. The active power of the circuit is:

- Ans
- 1.  $P = 1000$  W
  - 2.  $P = 1900$  W
  - 3.  $P = 1500$  W
  - 4.  $P = 1800$  W

Question ID : 264330159591  
Option 1 ID : 264330625726  
Option 2 ID : 264330625723  
Option 3 ID : 264330625725  
Option 4 ID : 264330625724  
Status : Answered  
Chosen Option : 2

Q.27 Find the equivalent resistance across terminal a-b:



- Ans
- 1.  $20\Omega$
  - 2.  $14\Omega$
  - 3.  $28\Omega$
  - 4.  $7\Omega$

Question ID : 26433096411  
Option 1 ID : 264330378383  
Option 2 ID : 264330378384  
Option 3 ID : 264330378382  
Option 4 ID : 264330378381  
Status : Answered  
Chosen Option : 2

Q.28 Which law gives the direction of induced EMF?

- Ans
- 1. Maxwell's law
  - 2. Lenz's law
  - 3. Gauss's law
  - 4. Newton's law

Question ID : 264330160222  
Option 1 ID : 264330628230  
Option 2 ID : 264330628227  
Option 3 ID : 264330628229  
Option 4 ID : 264330628228  
Status : Answered  
Chosen Option : 2

Q.29 For providing controlling torque to a horizontally mounted MI instrument, which of the following methods is used?

- Ans
- 1. Spring control
  - 2. Eddy current
  - 3. Electrostatic field
  - 4. Water control

Question ID : 264330162663  
Option 1 ID : 264330637973  
Option 2 ID : 264330637971  
Option 3 ID : 264330637974  
Option 4 ID : 264330637972  
Status : Answered  
Chosen Option : 1

Q.30 For an ideal short transmission line with zero voltage regulation, if receiving end voltage is 150 kV, then the sending end voltage will be:

- Ans
- 1. 200 kV
  - 2. 150 kV
  - 3. 125 kV
  - 4. 300 kV

Question ID : 264330158089  
Option 1 ID : 264330619718  
Option 2 ID : 264330619715  
Option 3 ID : 264330619716  
Option 4 ID : 264330619717  
Status : Answered  
Chosen Option : 2

Q.31 With respect to measuring the current in a circuit using the CRO, which of the following statements is/are correct?

- I. A low-resistance standard resistor is connected in series with the circuit whose current is being measured.
- II. The CRO is connected across the standard resistor to measure the voltage drop across it.
- III. A high-resistance standard resistor is connected in parallel with the circuit where the current is being measured.
- IV. The CRO is connected in series with the circuit whose current is being measured.

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

Question ID : 264330160630  
Option 1 ID : 264330629851  
Option 2 ID : 264330629852  
Option 3 ID : 264330629854  
Option 4 ID : 264330629853  
Status : Not Answered  
Chosen Option : --

Q.32 Repulsion start induction run motors are used in applications such as \_\_\_\_\_.

- Ans
- 1. hair dryers
  - 2. compressors
  - 3. fans
  - 4. vacuum cleaners

Question ID : 26433099627  
Option 1 ID : 264330391123  
Option 2 ID : 264330391121  
Option 3 ID : 264330391124  
Option 4 ID : 264330391122  
Status : Not Answered  
Chosen Option : --

Q.33 The actual efficiency of a solar power plant is lower than its theoretical efficiency. Which of the following can be reasons for this?

- I) Recombination of electrons and holes
- II) Internal resistance of the cell

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

Question ID : 264330158073  
Option 1 ID : 264330619653  
Option 2 ID : 264330619652  
Option 3 ID : 264330619654  
Option 4 ID : 264330619651  
Status : Not Answered  
Chosen Option : --

Q.34 Which of the following lighting calculation methods is handy and quick?

- Ans
- 1. Point by point method
  - 2. Lumen method
  - 3. Watts per square metre method
  - 4. Flux method

Question ID : 26433098215  
Option 1 ID : 264330385514  
Option 2 ID : 264330385515  
Option 3 ID : 264330385513  
Option 4 ID : 264330385516  
Status : Not Answered  
Chosen Option : --

Q.35 Choose the most efficient generator for wind power generation.

- Ans
- 1. Squirrel cage induction generators
  - 2. Induction generators
  - 3. Doubly-fed induction generator
  - 4. Permanent magnet synchronous generator

Question ID : 26433099572  
Option 1 ID : 264330390903  
Option 2 ID : 264330390904  
Option 3 ID : 264330390901  
Option 4 ID : 264330390902  
Status : Not Answered  
Chosen Option : --

Q.36 A 25 V, 800 W bulb is connected to a 10 V source. The power consumed by the bulb is

- Ans
- 1. 100 W
  - 2. 64 W
  - 3. 400 W
  - 4. 128 W

Question ID : 264330166286  
Option 1 ID : 264330652205  
Option 2 ID : 264330652203  
Option 3 ID : 264330652206  
Option 4 ID : 264330652204  
Status : Answered  
Chosen Option : 4

Q.37 What is the use of encoder in the DC servomotor?

- Ans
- 1. Determines the temperature of the windings of the motor
  - 2. Determines the rotational speed of the motor
  - 3. Determines the magnetic field strength inside the motor
  - 4. Determines the input voltage of the motor

Question ID : 264330164866  
Option 1 ID : 264330646594  
Option 2 ID : 264330646591  
Option 3 ID : 264330646593  
Option 4 ID : 264330646592  
Status : Answered  
Chosen Option : 2

Q.38 If a power station supplies 1000 MWh of electricity to its consumers for a period of two months, then the average demand during the period will be:

- Ans
- 1. 1.39 MW
  - 2. 1.39 kW
  - 3. 0.694 MW
  - 4. 0.694 kW

Question ID : 264330158046  
Option 1 ID : 264330619546  
Option 2 ID : 264330619544  
Option 3 ID : 264330619545  
Option 4 ID : 264330619543  
Status : Answered  
Chosen Option : 4

Q.39 During working of a permanent magnet synchronous motor, \_\_\_\_\_.

- Ans
- 1. stator and rotor both produce rotating magnetic field
  - 2. stator and rotor both produce constant magnetic field
  - 3. rotor produces rotating magnetic field and stator produces constant magnetic field
  - 4. rotor produces constant magnetic field and stator produces rotating magnetic field

Question ID : 264330164863  
Option 1 ID : 264330646581  
Option 2 ID : 264330646580  
Option 3 ID : 264330646579  
Option 4 ID : 264330646582  
Status : Not Answered  
Chosen Option : --

Q.40 In motor applications, efficiency of the motor is always less than 100% due to conversion of the \_\_\_\_\_.

- Ans
- 1. output energy into current
  - 2. output energy into heat
  - 3. input energy into voltage
  - 4. input energy into heat

Question ID : 264330157606  
Option 1 ID : 264330617785  
Option 2 ID : 264330617786  
Option 3 ID : 264330617783  
Option 4 ID : 264330617784  
Status : Answered  
Chosen Option : 4

Q.41 Which of the following statements is/are correct regarding black liquor?

- A) It retains more than 50% of the biomass energy of wood.
- B) It is a non-toxic substance produced when wood is burned into paper.
- C) Tall oil is an important by-product separated from black liquor by skimming.

- Ans
- 1. A and B
  - 2. Only C
  - 3. B and C
  - 4. A and C

Question ID : 264330158066  
Option 1 ID : 264330619623  
Option 2 ID : 264330619626  
Option 3 ID : 264330619625  
Option 4 ID : 264330619624  
Status : Not Answered  
Chosen Option : --

Q.42 At the leading power factor, the armature reaction of an alternator is:

- Ans  1. partially cross magnetising and partially magnetising  
 2. wholly demagnetising  
 3. wholly magnetising  
 4. partially cross magnetising and partially demagnetising

Question ID : 26433099519  
Option 1 ID : 264330390690  
Option 2 ID : 264330390691  
Option 3 ID : 264330390692  
Option 4 ID : 264330390689  
Status : Answered  
Chosen Option : 4

Q.43 A supply of 200 V can be obtained from a source of 600 V by means of a two-winding transformer or an auto transformer. The ratio of weights of conductor material in the auto transformer with respect to the two-winding transformer is \_\_\_\_\_.

- Ans  1. 2 : 1  
 2. 1 : 1.5  
 3. 1.5 : 1  
 4. 1 : 2

Question ID : 264330100794  
Option 1 ID : 264330395722  
Option 2 ID : 264330395724  
Option 3 ID : 264330395723  
Option 4 ID : 264330395721  
Status : Answered  
Chosen Option : 1

Q.44 If V-I characteristics is plotted for forward current by increasing the temperature, it has been seen that plot for V-I characteristics \_\_\_\_\_ as temperature increases.

- Ans  1. is moved to the left  
 2. is moved down  
 3. does not change  
 4. is moved to the right

Question ID : 26433098136  
Option 1 ID : 264330385198  
Option 2 ID : 264330385200  
Option 3 ID : 264330385199  
Option 4 ID : 264330385197  
Status : Not Answered  
Chosen Option : --

Q.45 A coal-fired thermal power plant generates 750 MW of electricity with a thermal efficiency of 30%. The coal has a heating value of 30,000 kJ/kg. Find the mass flow rate of the coal required to generate the required electricity.

- Ans
- 1. 0.0833 kg/s
  - 2. 8.33 kg/s
  - 3. 0.833 kg/s
  - 4. 83.33 kg/s

Question ID : 264330158074  
Option 1 ID : 264330619657  
Option 2 ID : 264330619656  
Option 3 ID : 264330619655  
Option 4 ID : 264330619658  
Status : Not Answered  
Chosen Option : --

Q.46 The following test results were obtained from a 6 kVA, 200/400 V, 50 Hz single-phase transformer. Data for no-load low-voltage side: 200 V, 0.5 A and 50 W. At normal voltage and frequency, determine the magnetising current of the transformer.

- Ans
- 1. 0.569 A
  - 2. 0.433 A
  - 3. 0.236 A
  - 4. 0 A

Question ID : 264330163311  
Option 1 ID : 264330640544  
Option 2 ID : 264330640546  
Option 3 ID : 264330640545  
Option 4 ID : 264330640543  
Status : Not Answered  
Chosen Option : --

Q.47 Which of the following should NOT be prioritised when making a comparison statement for the tender evaluation sheet/format?

- Ans
- 1. Supplier's name
  - 2. Cost of packaging and shipping
  - 3. Confidence that faulty goods will be replaced
  - 4. Conditions of supply

Question ID : 264330158157  
Option 1 ID : 264330619988  
Option 2 ID : 264330619990  
Option 3 ID : 264330619987  
Option 4 ID : 264330619989  
Status : Not Answered  
Chosen Option : --

Q.48 In a pure inductive circuit, if the frequency of the AC source is doubled, then its inductive reactance will:

- Ans
- 1. become zero
  - 2. be doubled
  - 3. remain the same
  - 4. be halved

Question ID : 264330159439  
Option 1 ID : 264330625118  
Option 2 ID : 264330625115  
Option 3 ID : 264330625116  
Option 4 ID : 264330625117  
Status : Answered  
Chosen Option : 2

Q.49 Calculate the apparent power of a circuit if the circuit has a power factor of 0.8 and the active power of the circuit is 40 W.

- Ans
- 1. 50 VA
  - 2. 100 VA
  - 3. 75 VA
  - 4. 40 VA

Question ID : 264330159433  
Option 1 ID : 264330625092  
Option 2 ID : 264330625091  
Option 3 ID : 264330625093  
Option 4 ID : 264330625094  
Status : Answered  
Chosen Option : 1

Q.50 Consider two MOSFET's A and B with the same overdrive voltage and sizes. MOSFET A is p-type MOSFET while MOSFET B is n-type MOSFET. Which of the following statements is true?

- a) MOSFET A has a higher transconductance
- b) MOSFET B has a higher transconductance
- c) MOSFET A and B have same transconductance due to same dimensions
- d) MOSFET A has a higher transconductance due to less mobility

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

Question ID : 264330159780  
Option 1 ID : 264330626468  
Option 2 ID : 264330626469  
Option 3 ID : 264330626470  
Option 4 ID : 264330626467  
Status : Not Answered  
Chosen Option : --



Q.51 The barrier potential can be calculated by \_\_\_\_\_ (where, the symbols have their usual meaning).

- Ans
1.  $E_0 = (kT/q) \ln (N_D * N_D / n_i)$
  2.  $E_0 = (kT/q) \ln (N_D * N_A / n_i^2)$
  3.  $E_0 = (kT/q) \ln (N_A * N_A / n_i^2)$
  4.  $E_0 = (kT/q) \ln (n_i^2 / N_D * N_A)$

Question ID : 26433098133  
Option 1 ID : 264330385187  
Option 2 ID : 264330385185  
Option 3 ID : 264330385186  
Option 4 ID : 264330385188  
Status : Not Answered  
Chosen Option : --

Q.52 Which of the following is true regarding reciprocity theorem?

- Ans
1. The product of response and excitation remains the same.
  2. The difference between response and excitation remains the same.
  3. The ratio of the response to the excitation remains the same.
  4. The sum of response and the excitation remains the same.

Question ID : 26433096471  
Option 1 ID : 264330378623  
Option 2 ID : 264330378624  
Option 3 ID : 264330378621  
Option 4 ID : 264330378622  
Status : Answered  
Chosen Option : 3

Q.53 In AC series motor, power factor is low because of \_\_\_\_\_.

- Ans
1. low inductance of the field and armature circuit
  2. high capacitance of the field and armature circuit
  3. high resistance of the field and armature circuit
  4. high inductance of the field and armature circuit

Question ID : 26433098250  
Option 1 ID : 264330385655  
Option 2 ID : 264330385654  
Option 3 ID : 264330385653  
Option 4 ID : 264330385656  
Status : Not Answered  
Chosen Option : --

Q.54 For measuring the earth resistance by the fall-of-potential method, how many auxiliary electrodes are used?

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

Question ID : 264330160648  
Option 1 ID : 264330629923  
Option 2 ID : 264330629924  
Option 3 ID : 264330629926  
Option 4 ID : 264330629925  
Status : Not Answered  
Chosen Option : --

Q.55 Which of the following connections is used as distribution transformer?

- Ans
- 1. Star-delta
  - 2. Delta-star
  - 3. Star-star
  - 4. Delta-delta

Question ID : 26433096108  
Option 1 ID : 264330377202  
Option 2 ID : 264330377203  
Option 3 ID : 264330377204  
Option 4 ID : 264330377201  
Status : Not Answered  
Chosen Option : --

Q.56 In the split-phase induction motor, both main winding and starting winding are displaced \_\_\_\_\_ in space.

- Ans
- 1. 270 degrees
  - 2. 180 degrees
  - 3. 360 degrees
  - 4. 90 degrees

Question ID : 264330164892  
Option 1 ID : 264330646697  
Option 2 ID : 264330646696  
Option 3 ID : 264330646698  
Option 4 ID : 264330646695  
Status : Not Answered  
Chosen Option : --

Q.57 Which of the following is NOT an advantage of shell type transformers over core type transformers?

- Ans
- 1. Reduced loss
  - 2. High mechanical strength
  - 3. Less copper requirement
  - 4. Easy maintenance

Question ID : 264330163319  
Option 1 ID : 264330640578  
Option 2 ID : 264330640577  
Option 3 ID : 264330640575  
Option 4 ID : 264330640576  
Status : Not Answered  
Chosen Option : --

Q.58 A permanent magnetic material has \_\_\_\_\_ retentivity.

- Ans
- 1. low
  - 2. constant
  - 3. high
  - 4. zero

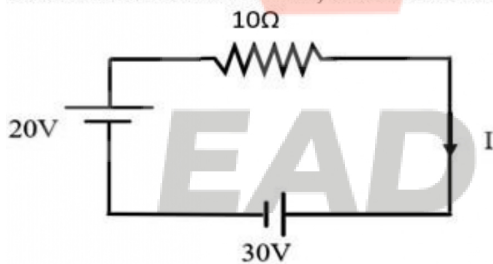
Question ID : 26433096919  
Option 1 ID : 264330380414  
Option 2 ID : 264330380416  
Option 3 ID : 264330380413  
Option 4 ID : 264330380415  
Status : Not Answered  
Chosen Option : --

Q.59 A voltage of  $230\angle 60^\circ$  is applied to a current offering an impedance of  $10 + j10\ \Omega$ . Find the expression for the current flowing through the circuit in polar form.

- Ans
- 1.  $16.3\angle 15^\circ$  leading
  - 2.  $23\angle 45^\circ$  leading
  - 3.  $16.3\angle 15^\circ$  lagging
  - 4.  $23\angle 45^\circ$  lagging

Question ID : 26433098282  
Option 1 ID : 264330385784  
Option 2 ID : 264330385781  
Option 3 ID : 264330385782  
Option 4 ID : 264330385783  
Status : Answered  
Chosen Option : 3

Q.60 In the circuit shown below, the current I in the circuit is:



- Ans
- 1. -1 A
  - 2. 1 A
  - 3. 2 A
  - 4. 0 A

Question ID : 26433096455  
Option 1 ID : 264330378559  
Option 2 ID : 264330378557  
Option 3 ID : 264330378558  
Option 4 ID : 264330378560  
Status : Answered  
Chosen Option : 1

Q.61 The advantage of the stationary armature of a synchronous machine is:

- Ans
- 1. commutator is present
  - 2. stator weight is less compared to rotor weight
  - 3. stator winding voltage rating can be decreased
  - 4. perfect mechanical balance is obtained on stator winding

Question ID : 26433099513  
Option 1 ID : 264330390665  
Option 2 ID : 264330390667  
Option 3 ID : 264330390666  
Option 4 ID : 264330390668  
Status : Answered  
Chosen Option : 1

Q.62 The horizontal amplifier should be designed for \_\_\_\_\_.

- Ans
- 1. high frequency signals with a fast rise time
  - 2. low amplitude signals with a fast rise time
  - 3. high amplitude signals with a fast rise time
  - 4. high amplitude signals with a slow rise time

Question ID : 26433098259  
Option 1 ID : 264330385689  
Option 2 ID : 264330385692  
Option 3 ID : 264330385691  
Option 4 ID : 264330385690  
Status : Not Answered  
Chosen Option : --

Q.63 A substation is a facility that transmits and distributes electricity. It serves as an intermediary between electricity plants and end users. Which of the following statements about substations is INCORRECT?

- Ans
- 1. At the point of interconnection between two distinct transmission voltages, transformers may be installed in a substation.
  - 2. All of the options
  - 3. Rotary converters are also used in railway substations.
  - 4. Domestic consumers may also connect directly to the main transmission network.

Question ID : 264330158153  
Option 1 ID : 264330619971  
Option 2 ID : 264330619974  
Option 3 ID : 264330619973  
Option 4 ID : 264330619972  
Status : Not Answered  
Chosen Option : --

Q.64 The ability of a capacitor to store charge does NOT depend on the \_\_\_\_\_.

- Ans
- 1. nature of the insulating material
  - 2. amount of charge
  - 3. distance between the plates
  - 4. areas of the plates

Question ID : 264330157643  
Option 1 ID : 264330617934  
Option 2 ID : 264330617933  
Option 3 ID : 264330617932  
Option 4 ID : 264330617931  
Status : Answered  
Chosen Option : 2

Q.65 The change in current through a junction diode is 1.5 mA when the forward bias voltage is changed by 0.6 V. The dynamic resistance is \_\_\_\_\_.

- Ans
- 1.  $300\ \Omega$
  - 2.  $500\ \Omega$
  - 3.  $600\ \Omega$
  - 4.  $400\ \Omega$

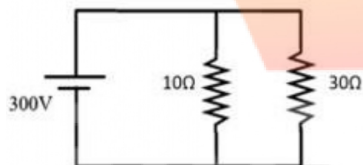
Question ID : 264330162826  
Option 1 ID : 264330638619  
Option 2 ID : 264330638621  
Option 3 ID : 264330638622  
Option 4 ID : 264330638620  
Status : Answered  
Chosen Option : 4

Q.66 Reciprocity theorem CANNOT be applied to the circuit having \_\_\_\_\_.

- Ans
- 1. bilateral elements
  - 2. non-linear elements and multi -sources
  - 3. linear elements
  - 4. only one independent sources

Question ID : 26433096473  
Option 1 ID : 264330378630  
Option 2 ID : 264330378632  
Option 3 ID : 264330378629  
Option 4 ID : 264330378631  
Status : Answered  
Chosen Option : 2

Q.67 The power consumed by the  $30\ \Omega$  resistor is:



- Ans
- 1. 10 W
  - 2. 300 W
  - 3. 3000 W
  - 4. 9000 W

Question ID : 26433096421  
Option 1 ID : 264330378423  
Option 2 ID : 264330378421  
Option 3 ID : 264330378424  
Option 4 ID : 264330378422  
Status : Answered  
Chosen Option : 3

Q.68 Identify the correct voltage range of medium transmission line.

- Ans
- 1. >100 kV < 200 KV
  - 2. >1 kV < 5 kV
  - 3. >5 kV < 10 kV
  - 4. >20 kV < 100 kV

Question ID : 264330159733  
Option 1 ID : 264330626290  
Option 2 ID : 264330626287  
Option 3 ID : 264330626288  
Option 4 ID : 264330626289  
Status : Not Answered  
Chosen Option : --

Q.69 If the frequency of supply in a three core underground cable is doubled, the charging current will be \_\_\_\_\_.

- Ans
- 1. half
  - 2. double
  - 3. four times
  - 4. three times

Question ID : 264330158122  
Option 1 ID : 264330619847  
Option 2 ID : 264330619848  
Option 3 ID : 264330619850  
Option 4 ID : 264330619849  
Status : Not Answered  
Chosen Option : --

Q.70 What type of rotor is used in alternators driven by hydro-turbines?

- Ans
- 1. Salient pole type
  - 2. Non-salient pole type
  - 3. Smooth cylindrical type
  - 4. Shaded pole type

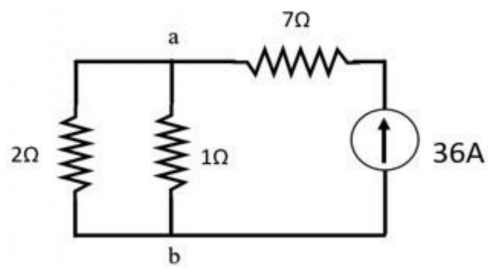
Question ID : 26433099512  
Option 1 ID : 264330390661  
Option 2 ID : 264330390663  
Option 3 ID : 264330390662  
Option 4 ID : 264330390664  
Status : Answered  
Chosen Option : 1

Q.71 In BJT, for common emitter configuration, the input characteristics are represented by a plot between which of the following parameters?

- Ans
- 1.  $V_{BE}$  and  $I_B$
  - 2.  $V_{BE}$  and  $I_E$
  - 3.  $V_{CE}$  and  $I_C$
  - 4.  $V_{EE}$  and  $I_B$

Question ID : 264330159772  
Option 1 ID : 264330626436  
Option 2 ID : 264330626435  
Option 3 ID : 264330626437  
Option 4 ID : 264330626438  
Status : Not Answered  
Chosen Option : --

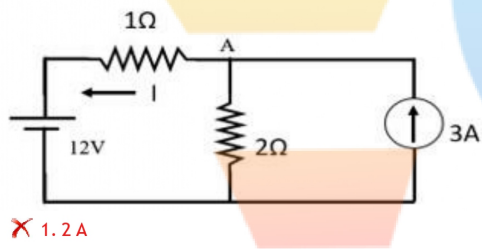
Q.72 The current through the  $2\Omega$  resistor is:



- Ans
- ✓ 1. 12A from a to b
  - ✗ 2. 25A from b to a
  - ✗ 3. 1A from a to b
  - ✗ 4. 10A from b to a

Question ID : 26433096449  
 Option 1 ID : 264330378535  
 Option 2 ID : 264330378534  
 Option 3 ID : 264330378533  
 Option 4 ID : 264330378536  
 Status : Answered  
 Chosen Option : 4

Q.73 In the circuit shown below, the value of the current I is \_\_\_\_\_.



- Ans
- ✗ 1. 2 A
  - ✗ 2. 0 A
  - ✓ 3. -2 A
  - ✗ 4. 4 A

Question ID : 26433096485  
 Option 1 ID : 264330378677  
 Option 2 ID : 264330378679  
 Option 3 ID : 264330378680  
 Option 4 ID : 264330378678  
 Status : Answered  
 Chosen Option : 3

Q.74 Which of the following is NOT a type of tender, depending on the type of contract?

- Ans
- 1. Percentage rate tender
  - 2. Lum-sum tender
  - 3. Item rate tender
  - 4. Selected tender

Question ID : 264330158168  
Option 1 ID : 264330620033  
Option 2 ID : 264330620031  
Option 3 ID : 264330620032  
Option 4 ID : 264330620034  
Status : Not Answered  
Chosen Option : --

Q.75 Which of the following is NOT a desirable property for the insulating materials used in an underground cable?

- Ans
- 1. Non-inflammable
  - 2. High dielectric strength
  - 3. High insulation resistance
  - 4. Hygroscopic

Question ID : 264330158127  
Option 1 ID : 264330619870  
Option 2 ID : 264330619869  
Option 3 ID : 264330619867  
Option 4 ID : 264330619868  
Status : Not Answered  
Chosen Option : --

Q.76 Which of the following statements is FALSE in association with synchronous motor applications?

- Ans
- 1. Synchronous motor is highly suitable for low power output below 40 kW in medium speed range.
  - 2. Voltage regulation can be done using synchronous motor.
  - 3. Synchronous motor is used in constant load drive application.
  - 4. Synchronous motor is expensive in low power output application.

Question ID : 264330164904  
Option 1 ID : 264330646743  
Option 2 ID : 264330646746  
Option 3 ID : 264330646744  
Option 4 ID : 264330646745  
Status : Not Answered  
Chosen Option : --



Q.77 Which of the following statements accurately describes voltage drop due to armature leakage reactance in an alternator on load?

- Ans
- 1. The voltage drop due to armature leakage reactance decreases with increasing load.
  - 2. The voltage drop due to armature leakage reactance is independent of the load.
  - 3. The voltage drop due to armature leakage reactance only occurs when the alternator is operating at no load.
  - 4. The voltage drop due to armature leakage reactance increases with increasing load.

Question ID : 264330164893  
Option 1 ID : 264330646699  
Option 2 ID : 264330646700  
Option 3 ID : 264330646702  
Option 4 ID : 264330646701  
Status : Not Answered  
Chosen Option : --

Q.78 Find the electrical energy consumed in  $10\Omega$  resistance when 100 mA current flows for 2 minutes.

- Ans
- 1. 12 J
  - 2. 1200 J
  - 3. 120 J
  - 4. 100 J

Question ID : 264330160219  
Option 1 ID : 264330628218  
Option 2 ID : 264330628215  
Option 3 ID : 264330628216  
Option 4 ID : 264330628217  
Status : Answered  
Chosen Option : 1

Q.79 Which of the following is the correct interrelation between the variables  $x_1$  and  $x_2$  used in the expression to calculate the sag in a transmission conductor with different heights, where , variables  $x_1$  and  $x_2$  represent the horizontal distances of support at lower and higher levels from the lowest point of the conductor, respectively?

- Ans
- 1.  $x_1 > x_2$
  - 2.  $x_1 \gg x_2$
  - 3.  $x_1 < x_2$
  - 4.  $x_1 = x_2$

Question ID : 264330162602  
Option 1 ID : 264330637737  
Option 2 ID : 264330637738  
Option 3 ID : 264330637736  
Option 4 ID : 264330637735  
Status : Not Answered  
Chosen Option : --

Q.80 Which of the following statements is true about selection of the size of units in electrical energy generation?

- Ans  1. The size should be selected such that the unit operates close to the load curve of the station.
2. The size must be selected such that the unit operates close to the maximum demand curve of the station.
3. The size should be selected independent of both the maximum demand curve and the load curve.
4. The size of units must match both the maximum demand curve and the load curve.

Question ID : 264330158076  
Option 1 ID : 264330619663  
Option 2 ID : 264330619664  
Option 3 ID : 264330619666  
Option 4 ID : 264330619665  
Status : Not Answered  
Chosen Option : --

Q.81 In electromagnetic induction, the energy is supplied to the circuit and a part of this supplied energy is spent to meet \_\_\_\_.

- Ans  1. iron losses
2. hysteresis loss
3. eddy current loss
4.  $I^2R$  losses

Question ID : 264330157615  
Option 1 ID : 264330617819  
Option 2 ID : 264330617821  
Option 3 ID : 264330617822  
Option 4 ID : 264330617820  
Status : Answered  
Chosen Option : 3

Q.82 Three-point lighting is usually employed in film lighting schemes. Which of the following does NOT form a part of the scheme?

- Ans  1. Fill lighting
2. Back lighting
3. Key lighting
4. Bounce lighting

Question ID : 264330100102  
Option 1 ID : 264330392984  
Option 2 ID : 264330392983  
Option 3 ID : 264330392981  
Option 4 ID : 264330392982  
Status : Not Answered  
Chosen Option : --

Q.83 The transfer characteristic of JFET is drawn between:

Ans

- 1.  $I_B$  and  $V_{GS}$
- 2.  $I_B$  and  $V_{DS}$
- 3.  $I_{DSS}$  and  $V_{DS}$
- 4.  $I_{DSS}$  and  $V_{GS}$

Question ID : 264330159777  
Option 1 ID : 264330626456  
Option 2 ID : 264330626457  
Option 3 ID : 264330626458  
Option 4 ID : 264330626455  
Status : Not Answered  
Chosen Option : --

Q.84 In an electrical circuit, the current that changes periodically, both in magnitude and direction, at regular intervals of time is called \_\_\_\_.

Ans

- 1. leading current
- 2. phase current
- 3. direct current
- 4. alternating current

Question ID : 264330157631  
Option 1 ID : 264330617886  
Option 2 ID : 264330617885  
Option 3 ID : 264330617883  
Option 4 ID : 264330617884  
Status : Answered  
Chosen Option : 4

Q.85 Consider the following statements about the working of a hysteresis motor and choose the suitable combination of correct choices.

- a. The stator of the hysteresis motor has a main winding along with an auxiliary winding.
- b. When the stator winding is fed from a single phase supply, it produces a synchronously revolving magnetic field.
- c. The rotor material has low retentivity so hysteresis loss is low.
- d. The rotor of the hysteresis motor consists of a smooth cylinder of magnetically hard steel, without winding

Ans

- 1. Only d is correct.
- 2. Only c is correct.
- 3. Only b, c and d are correct.
- 4. Only a, b and d are correct.

Question ID : 26433099541  
Option 1 ID : 264330390778  
Option 2 ID : 264330390777  
Option 3 ID : 264330390780  
Option 4 ID : 264330390779  
Status : Not Answered  
Chosen Option : --

Q.86 A balanced star connected load of  $4 + j3 \Omega$  per phase connected to a 3-phase, 230 V (phase value) supply. Find the value of active power.

- Ans
- 1. 19.13 kW
  - 2. 22.45 kW
  - 3. 15.34 kW
  - 4. 25.4 kW

Question ID : 26433098297  
Option 1 ID : 264330385841  
Option 2 ID : 264330385843  
Option 3 ID : 264330385842  
Option 4 ID : 264330385844  
Status : Not Answered  
Chosen Option : --

Q.87 Which of the following statements is NOT correct about active power in an AC circuit?

- Ans
- 1. Active power is the power dissipated in the pure inductance.
  - 2. Active power can be measured in terms of kilo watt.
  - 3. Active power is the power dissipated in the pure resistance.
  - 4. Active power depends on power factor.

Question ID : 26433098289  
Option 1 ID : 264330385811  
Option 2 ID : 264330385812  
Option 3 ID : 264330385810  
Option 4 ID : 264330385809  
Status : Not Answered  
Chosen Option : --

Q.88 In an electronic circuit, the potential difference across any one resistor is a fraction of the total voltage applied across the series combination. Such a circuit is called \_\_\_\_\_.

- Ans
- 1. voltage divider circuit
  - 2. current divider circuit
  - 3. voltage multiplier circuit
  - 4. current multiplier circuit

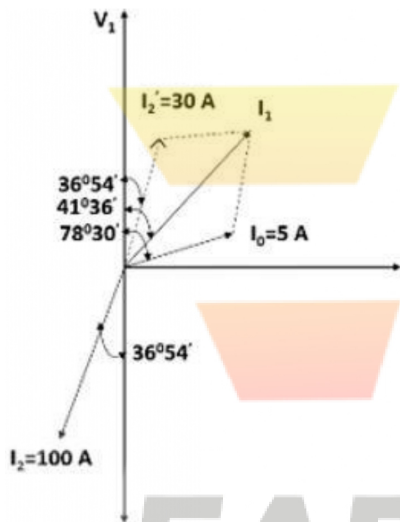
Question ID : 264330157628  
Option 1 ID : 264330617872  
Option 2 ID : 264330617871  
Option 3 ID : 264330617874  
Option 4 ID : 264330617873  
Status : Not Answered  
Chosen Option : --

Q.89 Calculate the respective values of magnetising force and flux density at a distance of 10 cm from a long circular conductor carrying a current of 100 A, placed in air?

- Ans
1.  $6.28 \times 10^{-7} \text{ AT/m}$  and  $500 \text{ Wb/m}^2$
  2.  $50 \text{ Wb/m}^2$  and  $6.28 \times 10^{-7} \text{ AT/m}$
  3.  $500 \text{ AT/m}$  and  $6.28 \times 10^{-4} \text{ Wb/m}^2$
  4.  $1500 \text{ Wb/m}^2$  and  $3.14 \times 10^{-4} \text{ AT/m}$

Question ID : 26433096918  
 Option 1 ID : 264330380412  
 Option 2 ID : 264330380410  
 Option 3 ID : 264330380409  
 Option 4 ID : 264330380411  
 Status : Not Answered  
 Chosen Option : --

Q.90 Find the estimated current taken by the primary side if a single-phase transformer with a voltage ratio of 440/110 V takes a no-load current of 5 A at 0.2 power factor lagging and the secondary supplies a current of 120 A at a power factor of 0.8 lagging. Given that  $\cos(41^\circ 36') = 0.748$ .



- Ans
1.  $\sqrt{1140.4} \text{ A}$
  2.  $\sqrt{1178} \text{ A}$
  3. 30 A
  4.  $\sqrt{1149.4} \text{ A}$

Question ID : 264330162910  
 Option 1 ID : 264330638956  
 Option 2 ID : 264330638958  
 Option 3 ID : 264330638957  
 Option 4 ID : 264330638955  
 Status : Not Answered  
 Chosen Option : --

Q.91 Which of the following statements is NOT correct about the significance of stationary armature alternator?

- Ans  1. The output current can be easily taken from rotor winding.
2. The armature windings of the rotating field alternator are not subjected to centrifugal forces.
3. The armature windings can be braced better mechanically against the high electromagnetic force.
4. The rotating field type alternator has a smaller size than the rotating armature type.

Question ID : 26433099540  
Option 1 ID : 264330390776  
Option 2 ID : 264330390773  
Option 3 ID : 264330390774  
Option 4 ID : 264330390775  
Status : Not Answered  
Chosen Option : --

Q.92 In an electrical network, if the quantity of a source is controlled by another voltage or current present in the circuit, such a source is called \_\_\_\_\_.

- Ans  1. dependent source
2. non-ideal source
3. ideal source
4. independent source

Question ID : 264330157634  
Option 1 ID : 264330617895  
Option 2 ID : 264330617898  
Option 3 ID : 264330617897  
Option 4 ID : 264330617896  
Status : Not Answered  
Chosen Option : --

Q.93 Why is the hold-on coil connected in series with the shunt field in a three-point starter of a DC motor?

- Ans  1. To prevent the motor from running away in case of an open-field circuit
2. To provide the lubricant for the motor
3. To disconnect the supply when the motor is in normal operation
4. To control the speed of the motor

Question ID : 264330163303  
Option 1 ID : 264330640514  
Option 2 ID : 264330640513  
Option 3 ID : 264330640512  
Option 4 ID : 264330640511  
Status : Not Answered  
Chosen Option : --

Q.94 If the synchronous speed of a motor is 1000 rpm and the rotor speed is 970 rpm, then percentage slip is \_\_\_\_\_.

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

Question ID : 26433099582  
Option 1 ID : 264330390942  
Option 2 ID : 264330390941  
Option 3 ID : 264330390944  
Option 4 ID : 264330390943  
Status : Not Answered  
Chosen Option : --

Q.95 Which of the following types of steel is used to make the core of a transformer?

- Ans
- 1. Stainless steel
  - 2. Silicon steel
  - 3. High-carbon steel
  - 4. Tool steel

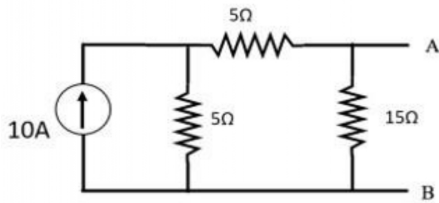
Question ID : 264330163317  
Option 1 ID : 264330640568  
Option 2 ID : 264330640569  
Option 3 ID : 264330640567  
Option 4 ID : 264330640570  
Status : Not Answered  
Chosen Option : --

Q.96 The deflection sensitivity in a cathode ray oscilloscope (CRO) is \_\_\_\_\_ the mass of electron.

- Ans
- 1. inversely proportional to the square root of
  - 2. directly proportional to
  - 3. inversely proportional to
  - 4. directly proportional to the square root of

Question ID : 264330100765  
Option 1 ID : 264330395608  
Option 2 ID : 264330395605  
Option 3 ID : 264330395606  
Option 4 ID : 264330395607  
Status : Not Answered  
Chosen Option : --

Q.97 The Norton's equivalent current between the load terminal A-B will be:



- Ans
- 1. 10 A
  - 2. 5 A
  - 3. 0 A
  - 4. 20 A

Question ID : 26433096468  
Option 1 ID : 264330378609  
Option 2 ID : 264330378610  
Option 3 ID : 264330378611  
Option 4 ID : 264330378612  
Status : Not Answered  
Chosen Option : --

Q.98 What is the main reason of placing field winding on the stationary rotor?

- Ans
- 1. Stator is associated with more current.
  - 2. Insulation of high voltage is made easy on stator than on rotor.
  - 3. Field circuit possesses less power.
  - 4. Stator is associated with more power.

Question ID : 264330164898  
Option 1 ID : 264330646720  
Option 2 ID : 264330646721  
Option 3 ID : 264330646722  
Option 4 ID : 264330646719  
Status : Not Answered  
Chosen Option : --

Q.99 The admittance of an electric circuit is represented by  $Y = (3 + j4)$ . What is the value of resistance in this circuit?

- Ans
- 1.  $\frac{2}{25} \Omega$
  - 2.  $\frac{4}{25} \Omega$
  - 3.  $\frac{1}{25} \Omega$
  - 4.  $\frac{3}{25} \Omega$

Question ID : 264330159856  
Option 1 ID : 264330626773  
Option 2 ID : 264330626771  
Option 3 ID : 264330626774  
Option 4 ID : 264330626772  
Status : Not Answered  
Chosen Option : --





***EAD GROUP***