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Junior Engineer Civil Mechanical and Electrical Examination 2023 Paper I

Roll Number	
Candidate Name	
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. बारहसिंहा (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

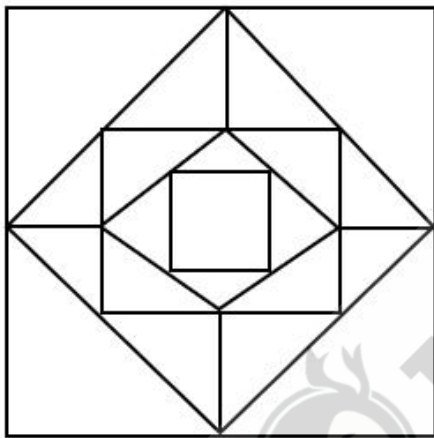
Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- 1. KLIOTHGJRURUT
 - 2. 10ЯHTIOIUЯƆTK
 - 3. KƆɹɹɹUO1HƆU1
 - 4. TUЯHTIOIUЯƆTK

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

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. $- , \div , = , \times , +$
 2. $- , + , \times , = , \div , +$
 3. $- , + , \div , \times , = , +$
 4. $+ , \div , \div , \times , = , +$

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?

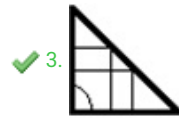
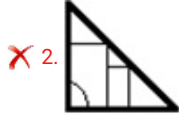
- Ans
- 1. Father's mother
 - 2. Brother's wife
 - 3. Sister
 - 4. Mother

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. शेल्फ
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

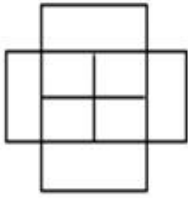
Option 4 ID : 264330566836

Status : Answered

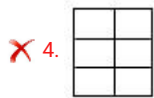
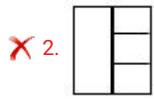
Chosen Option : 2



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

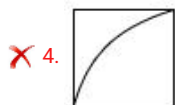
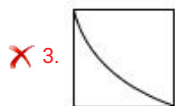
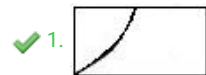
Status : Answered

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

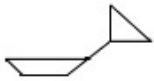
Option 3 ID : 264330566795

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__KU_IN_URI_K_RI__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 'x', 'x' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
 $41 \div 18 - 7 + 322 \times 23 = ?$

- 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. G O L B G
 - 2. M G B L B
 - 3. G L O B G
 - 4. B G L O M

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

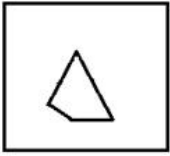
Question ID : 264330144871
Option 1 ID : 264330567739
Option 2 ID : 264330567742
Option 3 ID : 264330567740
Option 4 ID : 264330567741
Status : Answered
Chosen Option : 2

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).

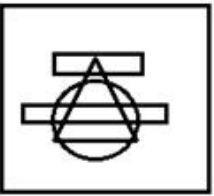


Ans

✓ 1.



✗ 2.



✗ 3.



✗ 4.



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Question ID : 26433068172

Option 1 ID : 264330267201

Option 2 ID : 264330267203

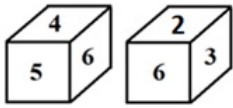
Option 3 ID : 264330267200

Option 4 ID : 264330267202

Status : Answered

Chosen Option : 1

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. Phylloquinone
 - 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 19th century German chemist visualised the ring structure of benzene in 1865?

- Ans
- 1. Robert Bunsen
 - 2. Marguerite Perey
 - 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. Bardoisila
 - 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 11th Fundamental Duty was added to the Constitution of India by the _____ Constitutional Amendment Act.

- Ans 1. 86th
 2. 88th
 3. 83rd
 4. 81st

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 fight 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 फ़िल्ड 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 : 26433011417
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



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, ϕ_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. $1\text{kWh} = 3.6 \times 10^5$ joules
 - 2. $1\text{kWh} = 36 \times 10^6$ joules
 - 3. $1\text{kWh} = 36 \times 10^5$ joules
 - 4. $1\text{kWh} = 3.6 \times 10^3$ 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. $W_e = kB_{\text{Max}}^2 f^2 t V^2$ watts
 - 2. $W_e = kB_{\text{Max}}^2 f^2 t^2 V^2$ watts
 - 3. $W_e = kB_{\text{Max}}^2 f t^2 V^2$ watts
 - 4. $W_e = kB_{\text{Max}}^2 f^2 t^2 V$ 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

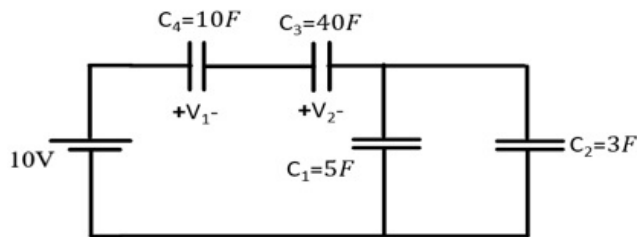
Option 3 ID : 264330395737

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. 1V 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 $L = 2H$ and capacitance $C = 8 \mu F$ 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

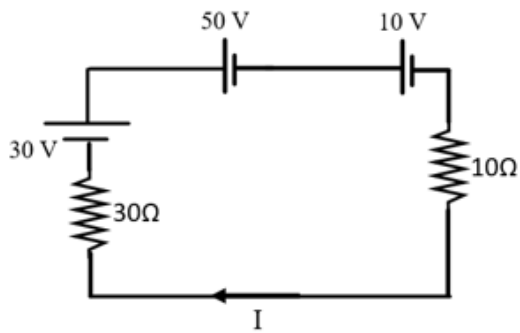
Option 3 ID : 264330625410

Option 4 ID : 264330625407

Status : Answered

Chosen Option : 4

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

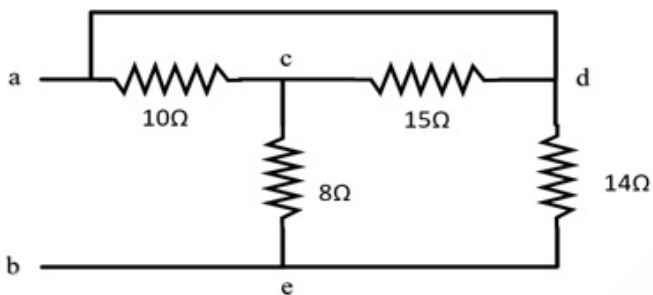
Question ID : 264330159734
Option 1 ID : 264330626291
Option 2 ID : 264330626293
Option 3 ID : 264330626294
Option 4 ID : 264330626292
Status : Answered
Chosen Option : 1

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

- Ans
- 1. $P = 1000 \text{ W}$
 - 2. $P = 1900 \text{ W}$
 - 3. $P = 1500 \text{ W}$
 - 4. $P = 1800 \text{ W}$

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. 20Ω
 - 2. 14Ω
 - 3. 28Ω
 - 4. 7Ω

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

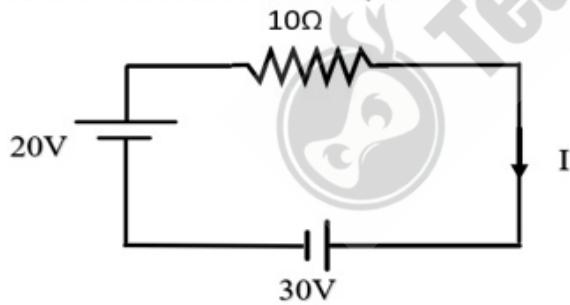
Question ID : 26433096919
Option 1 ID : 264330380414
Option 2 ID : 264330380416
Option 3 ID : 264330380413
Option 4 ID : 264330380415
Status : Not Answered
Chosen Option : --

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 Ω
 - 2. 500 Ω
 - 3. 600 Ω
 - 4. 400 Ω

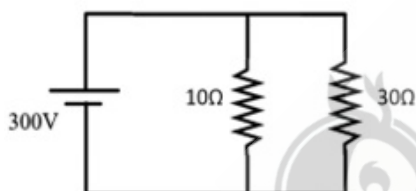
Question ID : 264330162826
Option 1 ID : 264330638619
Option 2 ID : 264330638621
Option 3 ID : 264330638622
Option 4 ID : 264330638620
Status : Answered
Chosen Option : 4

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 Ω 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. $>100\text{ kV} < 200\text{ kV}$
 - 2. $>1\text{ kV} < 5\text{ kV}$
 - 3. $>5\text{ kV} < 10\text{ kV}$
 - 4. $>20\text{ kV} < 100\text{ kV}$

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

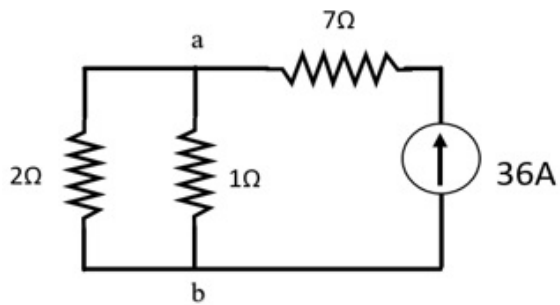
Question ID : 26433099512
Option 1 ID : 264330390661
Option 2 ID : 264330390663
Option 3 ID : 264330390662
Option 4 ID : 264330390664
Status : Answered
Chosen Option : 1

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 2Ω 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

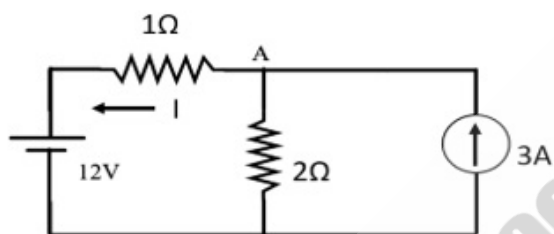
Option 3 ID : 264330378533

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 10Ω 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 100π A, placed in air?

- Ans
- ✗ 1. 6.28×10^{-7} AT/m and 500 Wb/m²
 - ✗ 2. 50 Wb/m² and 6.28×10^{-7} AT/m
 - ✓ 3. 500 AT/m and 6.28×10^{-4} Wb/m²
 - ✗ 4. 1500 Wb/m² and 3.14×10^{-4} AT/m

Question ID : 26433096918

Option 1 ID : 264330380412

Option 2 ID : 264330380410

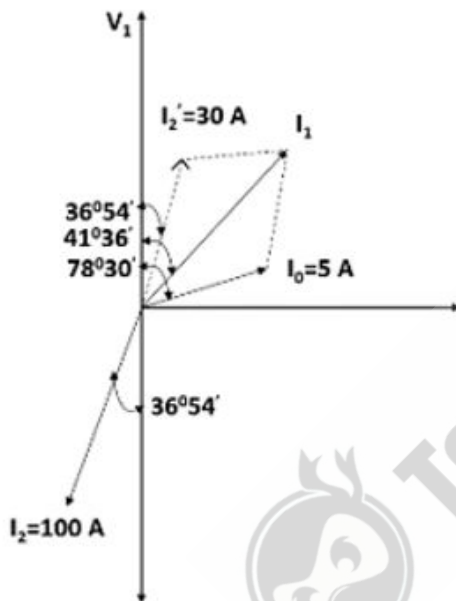
Option 3 ID : 264330380409

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. $\sqrt{1140.4}$ A
 - ✗ 2. $\sqrt{1178}$ A
 - ✗ 3. 30 A
 - ✓ 4. $\sqrt{1149.4}$ 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

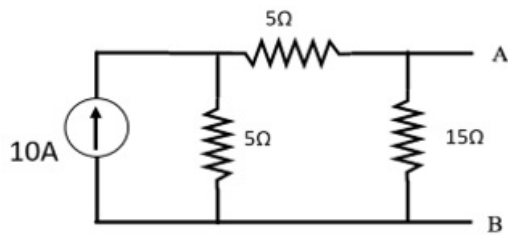
Question ID : 264330163317
Option 1 ID : 264330640568
Option 2 ID : 264330640569
Option 3 ID : 264330640567
Option 4 ID : 264330640570
Status : Not Answered
Chosen Option : --

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 : --

Q.100 In an electrical signal waveform, if each value on the curve is proportional to sine of the angle of rotation of the coil, then such a wave is called _____.

- Ans
- 1. sine wave
 - 2. triangular wave
 - 3. square wave
 - 4. ramp wave

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Option 1 ID : 264330617888

Option 2 ID : 264330617887

Option 3 ID : 264330617889

Option 4 ID : 264330617890

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Chosen Option : --

