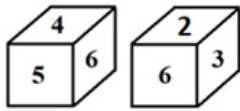


## Junior Engineer Civil Mechanical and Electrical Examination 2023 Paper I

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



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

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

Status : Answered

Chosen Option : 4

Q.2 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. (14, 4, 26)
  - ☒ 3. (24, 2, 66)
  - ☒ 4. (18, 3, 42)

Question ID : 264330144423  
Option 1 ID : 264330565949  
Option 2 ID : 264330565950  
Option 3 ID : 264330565947  
Option 4 ID : 264330565948

Status : Not Answered

Chosen Option : --

Q.3 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. 144  
 2. 153  
 3. 169  
 4. 167

Question ID : 264330126064

Option 1 ID : 264330493928

Option 2 ID : 264330493929





Option 3 ID : 264330493931

Option 4 ID : 264330493930

Status : Answered

Chosen Option : 2

Q.4 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. 63  
 2. 95  
 3. 90  
 4. 85

Question ID : 264330144557

Option 1 ID : 264330566483

Option 2 ID : 264330566484

Option 3 ID : 264330566485

Option 4 ID : 264330566486

Status : Not Answered

Chosen Option : --

Q.5 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. Both conclusions I and II follow
- ☒ 2. Only conclusion I follows
- ☒ 3. Only conclusion II follows
- ☒ 4. Neither conclusion I nor II follows

Question ID : 264330144949

Option 1 ID : 264330568053

Option 2 ID : 264330568051

Option 3 ID : 264330568052

Option 4 ID : 264330568054

Status : Answered

Chosen Option : 3

Q.6 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. GPSD
- ☒ 2. HQTC
- ☒ 3. GRTD
- ☒ 4. HRSC

Question ID : 264330130329

Option 1 ID : 264330510429

Option 2 ID : 264330510428

Option 3 ID : 264330510430

Option 4 ID : 264330510427

Status : Answered

Chosen Option : 2

Q.7 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. FUKYGQ
- ☒ 2. GUKYGQ
- ☒ 3. FUJYHQ
- ☒ 4. GUKZGR

Question ID : 264330133208

Option 1 ID : 264330521880

Option 2 ID : 264330521879

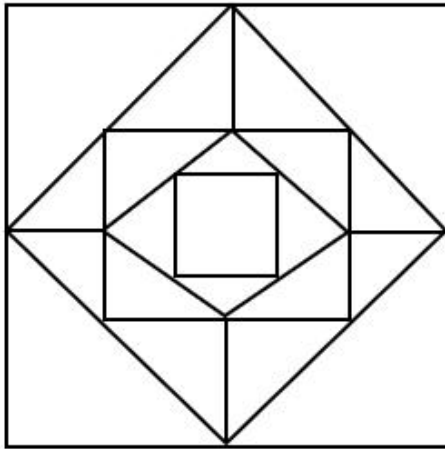
Option 3 ID : 264330521882

Option 4 ID : 264330521881

Status : Answered

Chosen Option : 1

Q.8 How many triangles are there in the given figure?



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

Question ID : 26433066231

Option 1 ID : 264330259458

Option 2 ID : 264330259457

Option 3 ID : 264330259456

Option 4 ID : 264330259459

Status : Answered

Chosen Option : 3

Q.9 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. Pran  
☒ 2. Samir  
☒ 3. Kiran  
☒ 4. Vyom

Question ID : 264330144639

Option 1 ID : 264330566813

Option 2 ID : 264330566811

Option 3 ID : 264330566812

Option 4 ID : 264330566814

Status : Answered

Chosen Option : 1

**Q.10** 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. 299  
☒ 2. 266  
☒ 3. 296  
☒ 4. 269

Question ID : 26433078939  
Option 1 ID : 264330309771  
Option 2 ID : 264330309770  
Option 3 ID : 264330309769  
Option 4 ID : 264330309768  
Status : Not Answered  
Chosen Option : --

**Q.11** Select the word-pair in which the two words are related in the same way as are the two words in the given pair.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)  
Seismology : Earthquake

- Ans ☒ 1. Herpetology : Amphibians  
☒ 2. Physiology : Physics  
☒ 3. Haematology : Hydrogen  
☒ 4. Taxonomy : Taxation

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

**Q.12** Which letter-cluster will replace the question mark (?) to complete the given series?

TTIR, PHMJ, LVQB, ?, DXYL

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

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

Q.13 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. 15  
☒ 3. 18  
☒ 4. 20

Question ID : 264330144434

Option 1 ID : 264330565994

Option 2 ID : 264330565991

Option 3 ID : 264330565993

Option 4 ID : 264330565992

Status : Answered

Chosen Option : 4

Q.14 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. Mother  
☒ 3. Brother's wife  
☒ 4. Sister

Question ID : 264330144544

Option 1 ID : 264330566433

Option 2 ID : 264330566434

Option 3 ID : 264330566431

Option 4 ID : 264330566432

Status : Answered

Chosen Option : 3

Q.15 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. Mohi  
☒ 2. Priya  
☒ 3. Krishi  
☒ 4. Minshu

Question ID : 264330144635

Option 1 ID : 264330566797

Option 2 ID : 264330566796

Option 3 ID : 264330566798

Option 4 ID : 264330566795

Status : Answered

Chosen Option : 2

Q.16 Which of the following options will replace the question mark (?) in the given series?

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

Ans

✗ 1.  $\frac{1}{119}$

✓ 2. 1

✗ 3.  $\frac{1}{34}$

✗ 4.  $\frac{1}{85}$

Question ID : 26433091641

Option 1 ID : 264330359929

Option 2 ID : 264330359932

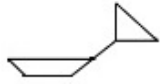
Option 3 ID : 264330359931

Option 4 ID : 264330359930

Status : Answered

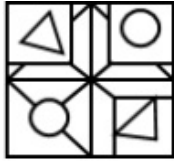
Chosen Option : 2

Q.17 Select the option in which the given figure is embedded (rotation is NOT allowed).

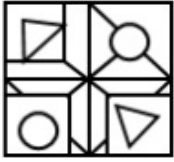


Ans

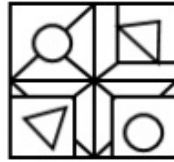
✗ 1.



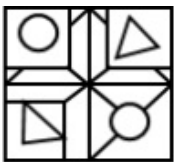
✗ 2.



✓ 3.



✗ 4.



Question ID : 264330126085

Option 1 ID : 264330494014

Option 2 ID : 264330494012

Option 3 ID : 264330494015

Option 4 ID : 264330494013

Status : Answered

Chosen Option : 3

Q.18 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. R

✗ 2. Q

✓ 3. C

✗ 4. E

Question ID : 264330131651

Option 1 ID : 264330515705

Option 2 ID : 264330515703

Option 3 ID : 264330515706

Option 4 ID : 264330515704

Status : Not Answered

Chosen Option : --



Q.19 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. INKRNUNK  
☐ 3. INRKUNNK  
☐ 4. INRKNUUK

Question ID : 26433068920

Option 1 ID : 264330270194

Option 2 ID : 264330270193

Option 3 ID : 264330270192

Option 4 ID : 264330270195

Status : Answered

Chosen Option : 1

Q.20 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Persuade : Discourage :: Profound : ?

- Ans ☐ 1. Clever  
☐ 2. Sincere  
☐ 3. Intense  
☒ 4. Superficial

Question ID : 264330144565

Option 1 ID : 264330566517

Option 2 ID : 264330566518

Option 3 ID : 264330566515

Option 4 ID : 264330566516

Status : Answered

Chosen Option : 4

Q.21 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.  $\div$  and  $\times$   
☒ 3.  $-$  and  $\times$   
☐ 4.  $\times$  and  $+$

Question ID : 264330129536

Option 1 ID : 264330507510

Option 2 ID : 264330507511

Option 3 ID : 264330507513

Option 4 ID : 264330507512

Status : Answered

Chosen Option : 3

Q.22 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. 45  
☒ 2. 35  
☒ 3. 15  
☒ 4. 40

Question ID : 264330129773  
Option 1 ID : 264330508326  
Option 2 ID : 264330508325  
Option 3 ID : 264330508324  
Option 4 ID : 264330508323  
Status : Not Answered  
Chosen Option : --

Q.23 Select the option that is embedded in the given figure (rotation is NOT allowed).



- Ans ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

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

Q.24 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. 74  
☒ 2. 22  
☒ 3. 47  
☒ 4. 78

Question ID : 264330144594

Option 1 ID : 264330566633

Option 2 ID : 264330566634

Option 3 ID : 264330566632

Option 4 ID : 264330566631

Status : Answered

Chosen Option : 4

Q.25 If A denotes '+', B denotes 'x', C denotes '-', and D denotes '÷', then what will come in place of '?' in the following equation?  
 $89 \text{ C } 8 \text{ A } (18 \text{ B } 2) \text{ D } 4 = ?$

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

Question ID : 26433067679

Option 1 ID : 264330265230

Option 2 ID : 264330265229

Option 3 ID : 264330265231

Option 4 ID : 264330265228

Status : Answered

Chosen Option : 1

Q.26 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. 72  
☒ 4. 36

Question ID : 26433097280

Option 1 ID : 264330381818

Option 2 ID : 264330381817

Option 3 ID : 264330381820

Option 4 ID : 264330381819

Status : Answered

Chosen Option : 3

Q.27 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Shelf
2. Wood
3. Plank
4. Tree
5. Cupboard

Ans ☒ 1. 2 4 3 5 1

☒ 2. 4 2 3 1 5

☒ 3. 4 2 1 5 3

☒ 4. 2 4 5 1 3

Question ID : 264330131593

Option 1 ID : 264330515473

Option 2 ID : 264330515472

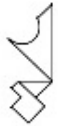
Option 3 ID : 264330515471

Option 4 ID : 264330515474

Status : Answered

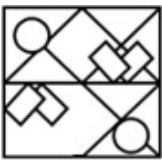
Chosen Option : 2

Q.28 Select the option in which the given figure is embedded (rotation is NOT allowed).

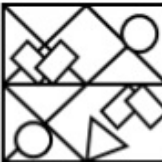


Ans

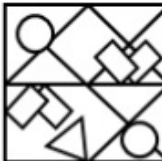
☒ 1.



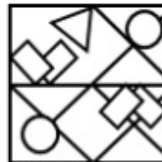
☒ 2.



☒ 3.



☒ 4.



Question ID : 264330126087

Option 1 ID : 264330494023

Option 2 ID : 264330494021

Option 3 ID : 264330494020

Option 4 ID : 264330494022

Status : Answered

Chosen Option : 3

**Q.29** 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. 4, 2, 1, 3, 5

 2. 4, 2, 1, 5, 3

 3. 2, 4, 1, 3, 5

 4. 4, 2, 3, 1, 5

Question ID : 264330129553

Option 1 ID : 264330507579

Option 2 ID : 264330507580

Option 3 ID : 264330507578

Option 4 ID : 264330507581

Status : Answered

Chosen Option : 1

**Q.30** 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. Only conclusion III follows

 2. All the conclusions I, II and III follow

 3. Only conclusion I follows

 4. Either conclusion I or II and conclusion III follow

Question ID : 264330144543

Option 1 ID : 264330566428

Option 2 ID : 264330566430

Option 3 ID : 264330566427

Option 4 ID : 264330566429

Status : Answered

Chosen Option : 2

**Q.31** Select the word-pair in which the two words are related in the same way as are the two words in the given pair.  
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)  
Hamper : Retard

- Ans  1. Hypocrisy : Frankness  
 2. Hamstrung : Encourage  
 3. Jovial : Solemn  
 4. Insipid : Tedious

Question ID : 264330114739

Option 1 ID : 264330451044

Option 2 ID : 264330451043



Option 3 ID : 264330451042

Option 4 ID : 264330451041

Status : Answered

Chosen Option : 2

**Q.32** 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. 333  
 2. 363  
 3. 366  
 4. 335

Question ID : 26433079010

Option 1 ID : 264330310046

Option 2 ID : 264330310044

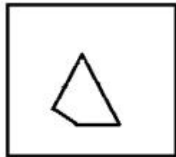
Option 3 ID : 264330310045

Option 4 ID : 264330310047

Status : Not Answered

Chosen Option : --

**Q.33** Select the option in which the given figure is embedded (rotation is NOT allowed).

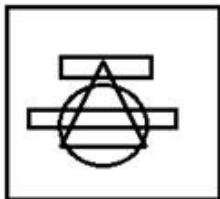


Ans

✗ 1.



✗ 2.



✗ 3.



✓ 4.



Question ID : 26433068172

Option 1 ID : 264330267202

Option 2 ID : 264330267203

Option 3 ID : 264330267200

Option 4 ID : 264330267201

Status : Answered

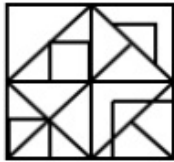
Chosen Option : 4

Q.34 Select the option in which the given figure is embedded (rotation is NOT allowed).

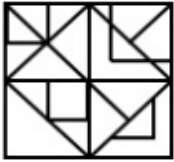


Ans

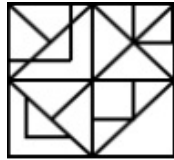
✗ 1.



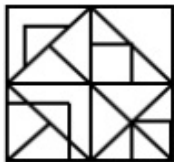
✗ 2.



✓ 3.



✗ 4.



Question ID : 264330126086

Option 1 ID : 264330494019

Option 2 ID : 264330494016

Option 3 ID : 264330494018

Option 4 ID : 264330494017

Status : Not Answered

Chosen Option : --

Q.35 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the word)

INDIA : NEW DELHI

Ans ✗ 1. SIKKIM : GANGTOK

✓ 2. RUSSIA : MOSCOW

✗ 3. UP : LUCKNOW

✗ 4. WEST BENGAL : KOLKATA

Question ID : 264330144613

Option 1 ID : 264330566710

Option 2 ID : 264330566708

Option 3 ID : 264330566707

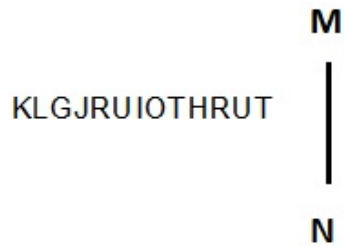
Option 4 ID : 264330566709

Status : Answered

Chosen Option : 2



Q.36 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
- ☒ 1.  $\overline{\text{KLGJRUIOTHRUT}}$
  - ☒ 2.  $\overline{\text{KLIOTHGJRURUT}}$
  - ☒ 3.  $\overline{\text{TUЯHTOIURJGJX}}$
  - ☒ 4.  $\overline{\text{KГCЯBUOTJHBUL}}$

Question ID : 264330108973

Option 1 ID : 264330428171

Option 2 ID : 264330428172

Option 3 ID : 264330428169

Option 4 ID : 264330428170

Status : Answered

Chosen Option : 3

Q.37 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.  
 $3 : 20 :: 7 : ? :: 11 : 68$

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

Question ID : 264330126045

Option 1 ID : 264330493852

Option 2 ID : 264330493855

Option 3 ID : 264330493854

Option 4 ID : 264330493853

Status : Answered

Chosen Option : 4

Q.38 '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. ZK88
  - ☒ 2. ZK44
  - ☒ 3. ZL44
  - ☒ 4. YK44

Question ID : 264330144604

Option 1 ID : 264330566674

Option 2 ID : 264330566672

Option 3 ID : 264330566671

Option 4 ID : 264330566673

Status : Answered

Chosen Option : 2

Q.39 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 J G L G J  
☐ 2. D A G J G L G L  
☐ 3. D G A L G J G J  
☐ 4. D G A L G L G J

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

Q.40 Arrange the following words in a logical and meaningful order.

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

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

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

Q.41 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

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

Mustang : Horse

- Ans ☐ 1. Stag : Deer  
☐ 2. Turkey : Fowl  
☐ 3. Panthera Leo : Lion  
☒ 4. Burmese : Cat

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

Q.42 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. G L O B G  
☐ 3. M G B L B  
☐ 4. B G L O M

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

Q.43 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. 729  
☐ 2. 477  
☐ 3. 1089  
☒ 4. 1458

Question ID : 264330144871  
Option 1 ID : 264330567741  
Option 2 ID : 264330567739  
Option 3 ID : 264330567740  
Option 4 ID : 264330567742  
Status : Not Answered  
Chosen Option : --

Q.44 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. 7 m, north  
☐ 2. 15 m, south  
☐ 3. 27 m, north  
☒ 4. 17 m, south

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

Q.45 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. 5, 1, 2, 6, 3, 4

☒ 4. 1, 5, 2, 3, 6, 4

Question ID : 264330129472

Option 1 ID : 264330507257

Option 2 ID : 264330507256

Option 3 ID : 264330507254

Option 4 ID : 264330507255

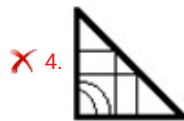
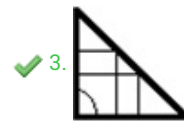
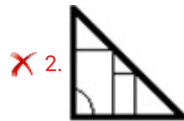
Status : Answered

Chosen Option : 1

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



Ans



Question ID : 26433074803

Option 1 ID : 264330293303

Option 2 ID : 264330293301

Option 3 ID : 264330293302




Option 4 ID : 264330293300

Status : Answered

Chosen Option : 3

Q.47 Which letter cluster will replace the question mark (?) to complete the given series?

MKXB, OOAC, QSDD, ?

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

Question ID : 264330144645

Option 1 ID : 264330566837

Option 2 ID : 264330566835

Option 3 ID : 264330566836





Option 4 ID : 264330566838

Status : Answered

Chosen Option : 4

Q.48 Select the correct combination of mathematical signs that can sequentially replace the boxes and balance the given equation.

$$30 \boxed{\phantom{00}} 13 \boxed{\phantom{00}} 21 \boxed{\phantom{00}} 3 \boxed{\phantom{00}} 2 \boxed{\phantom{00}} 4 \boxed{\phantom{00}} 2$$

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

Question ID : 264330129584

Option 1 ID : 264330507704

Option 2 ID : 264330507703

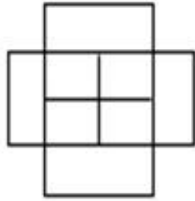
Option 3 ID : 264330507705

Option 4 ID : 264330507702

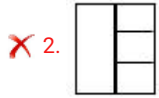
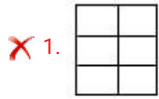
Status : Answered

Chosen Option : 1

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



Ans



Question ID : 26433058113

Option 1 ID : 264330227439

Option 2 ID : 264330227438

Option 3 ID : 264330227437

Option 4 ID : 264330227436

Status : Answered

Chosen Option : 3

Q.50 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.1** Which of the following terminologies describes the areas where ecological communities, ecosystems or biotic regions coincide?

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

Question ID : 264330110085  
Option 1 ID : 264330432620  
Option 2 ID : 264330432618  
Option 3 ID : 264330432617  
Option 4 ID : 264330432619  
Status : Answered  
Chosen Option : 1

**Q.2** Bishop is used in which of the following games?

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

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

**Q.3** The 11<sup>th</sup> Fundamental Duty was added to the Constitution of India by the \_\_\_\_\_ Constitutional Amendment Act.

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

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

**Q.4** 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. Asteraceae  
☒ 2. Ranunculaceae  
☒ 3. Sapindaceae  
☒ 4. Ericaceae

Question ID : 264330130983

Option 1 ID : 264330513045

Option 2 ID : 264330513046

Option 3 ID : 264330513043

Option 4 ID : 264330513044

Status : Not Answered

Chosen Option : --

**Q.5** 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. Chhattisgarh  
☒ 3. Maharashtra  
☒ 4. Madhya Pradesh

Question ID : 26433064804

Option 1 ID : 264330253808

Option 2 ID : 264330253811

Option 3 ID : 264330253810

Option 4 ID : 264330253809

Status : Answered

Chosen Option : 3

**Q.6** 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.7 Which of the following is an example of good netiquette when participating in online discussion or forums?**

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

Question ID : 264330168573

Option 1 ID : 264330661104

Option 2 ID : 264330661105

Option 3 ID : 264330661106

Option 4 ID : 264330661103

Status : Not Answered

Chosen Option : --

**Q.8 The Bhitari Pillar inscription of which Gupta ruler narrates his fight with the Pushyamitras?**

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

Question ID : 264330112139

Option 1 ID : 264330440641

Option 2 ID : 264330440643

Option 3 ID : 264330440644

Option 4 ID : 264330440642

Status : Answered

Chosen Option : 2

**Q.9 In which form have earth forming materials been distributed?**

- Ans**
- ☐ 1. Clusters
  - ☐ 2. Parts
  - ☒ 3. Layers
  - ☐ 4. Regions

Question ID : 264330113355

Option 1 ID : 264330445507

Option 2 ID : 264330445505

Option 3 ID : 264330445506

Option 4 ID : 264330445508

Status : Not Answered

Chosen Option : --

Q.10 \_\_\_\_\_ will be declared if the umpire thinks the batsman did NOT have a reasonable opportunity to score off the delivery.

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

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

Q.11 Which of the following is NOT a former name of Lakshadweep?

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

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

Q.12 Al Biruni wrote famous book "Kitab ul Hind" in \_\_\_\_\_ language.

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

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

Q.13 The Gram Nyayalay Act was passed in the year \_\_\_\_\_.

Ans ☒ 1. 1992

☒ 2. 2008

☒ 3. 2006

☒ 4. 1996

Question ID : 264330130482

Option 1 ID : 264330511042

Option 2 ID : 264330511041

Option 3 ID : 264330511039

Option 4 ID : 264330511040

Status : Answered

Chosen Option : 4

Q.14 Identify an allotrope of carbon that is smooth and slippery.

Ans ☒ 1. Fullerene

☒ 2. Graphite

☒ 3. Lead

☒ 4. Diamond

Question ID : 264330134860

Option 1 ID : 264330528378

Option 2 ID : 264330528376

Option 3 ID : 264330528375

Option 4 ID : 264330528377

Status : Answered

Chosen Option : 4

Q.15 Which of the following is NOT an Alicyclic compound?

Ans ☒ 1. Cyclohexene

☒ 2. Cyclopropane

☒ 3. Isobutane

☒ 4. Cyclohexane

Question ID : 264330131689

Option 1 ID : 264330515858

Option 2 ID : 264330515856

Option 3 ID : 264330515855

Option 4 ID : 264330515857

Status : Not Answered

Chosen Option : --

**Q.16** 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-b, 2-a, 3-c

✗ 3. 1-c, 2-b, 3-a

✗ 4. 1-a, 2-c, 3-b

Question ID : 264330132723

Option 1 ID : 264330519987

Option 2 ID : 264330519989

Option 3 ID : 264330519988

Option 4 ID : 264330519990

Status : Answered

Chosen Option : 1

**Q.17** EV Ramaswamy Naicker founded the \_\_\_\_\_ Movement.

**Ans** ✗ 1. Prarthana Samaj

✗ 2. Ghadar

✗ 3. Satyashodhak Samaj

✓ 4. Self-Respect

Question ID : 264330111417

Option 1 ID : 264330437753

Option 2 ID : 264330437754

Option 3 ID : 264330437755

Option 4 ID : 264330437756

Status : Answered

Chosen Option : 1

**Q.18** According the Census of India 2011, which state is the most densely populated?

**Ans** ✓ 1. Bihar

✗ 2. Kerala

✗ 3. Haryana

✗ 4. Uttar Pradesh

Question ID : 264330157093

Option 1 ID : 264330615745

Option 2 ID : 264330615746

Option 3 ID : 264330615743

Option 4 ID : 264330615744

Status : Answered

Chosen Option : 1

**Q.19 Which iron and steel plant was established near the confluence of the rivers Subarnarekha and Kharkai?**

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

Question ID : 264330113272  
Option 1 ID : 264330445175  
Option 2 ID : 264330445176  
Option 3 ID : 264330445174  
Option 4 ID : 264330445173  
Status : Answered  
Chosen Option : 2

**Q.20 Which of the following diseases is caused by Rhino viruses?**

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

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

**Q.21 Which vitamin deficiency in the diet causes Korsakoff syndrome, a chronic memory disorder that damages your brain?**

- Ans ☐ 1. Tocopherol  
☒ 2. Thiamine  
☐ 3. Niacin  
☐ 4. Phylloquinone

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

Q.22 Famous musician Ustad Amjad Ali Khan was born in 1945 in \_\_\_\_\_.

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

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

Q.23 The salary and allowance of the Prime Minister of India is determined by the \_\_\_\_\_.

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

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

Q.24 According to Census of India 2011, how much per cent of the total population were Sikhs?

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

Question ID : 264330116478  
Option 1 ID : 264330457999  
Option 2 ID : 264330458000  
Option 3 ID : 264330457998  
Option 4 ID : 264330457997  
Status : Answered  
Chosen Option : 4

Q.25 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 1786
- ☒ 4. Act of 1858

Question ID : 264330112160

Option 1 ID : 264330440728

Option 2 ID : 264330440726

Option 3 ID : 264330440727

Option 4 ID : 264330440725

Status : Not Answered

Chosen Option : --

Q.26 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 factor cost
- ☒ 2. Gross National Product at factor cost
- ☒ 3. Gross National Product at market price
- ☒ 4. Net National Product at market price

Question ID : 264330144404

Option 1 ID : 264330565872

Option 2 ID : 264330565873

Option 3 ID : 264330565874

Option 4 ID : 264330565871

Status : Not Answered

Chosen Option : --

Q.27 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. Bihar
- ☒ 3. Meghalaya
- ☒ 4. Uttar Pradesh

Question ID : 264330111354

Option 1 ID : 264330437503

Option 2 ID : 264330437504

Option 3 ID : 264330437502

Option 4 ID : 264330437501

Status : Answered

Chosen Option : 3

**Q.28** What are thunderstorms in Assam during the month of 'Baisakhi' called?

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

Question ID : 264330134899

Option 1 ID : 264330528531

Option 2 ID : 264330528532

Option 3 ID : 264330528534

Option 4 ID : 264330528533

Status : Answered

Chosen Option : 2

**Q.29** 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.30** What does the word Gopuram mean in the context of temple architecture of South India?

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

Question ID : 26433071466

Option 1 ID : 264330280290

Option 2 ID : 264330280291

Option 3 ID : 264330280288

Option 4 ID : 264330280289

Status : Answered

Chosen Option : 2



**Q.31** Manoj Sinha, who is the second Lieutenant Governor of the Union territory of Jammu and Kashmir, hails from \_\_\_\_\_.

- Ans ☒ 1. Uttar Pradesh  
☒ 2. Odisha  
☒ 3. Madya Pradesh  
☒ 4. Jharkhand

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

**Q.32** NABARD came into being in 1982. With how much initial capital was it set up?

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

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

**Q.33** Who was responsible for causing the partition of Bengal?

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

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

**Q.34** 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 : Answered

Chosen Option : 3

**Q.35** 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 Home Affairs  
☐ 2. Ministry of Agriculture and Farmers Welfare  
☐ 3. Ministry of Skill Development and Entrepreneurship  
☒ 4. Ministry of Micro, Small and Medium Enterprises

Question ID : 264330113303

Option 1 ID : 264330445300

Option 2 ID : 264330445297

Option 3 ID : 264330445299

Option 4 ID : 264330445298

Status : Answered

Chosen Option : 3

**Q.36** Which 19<sup>th</sup> century German chemist visualised the ring structure of benzene in 1865?

- Ans ☐ 1. Marguerite Perey  
☐ 2. Emil Fischer  
☐ 3. Robert Bunsen  
☒ 4. Friedrich August Kekule

Question ID : 264330141681

Option 1 ID : 264330555043

Option 2 ID : 264330555044

Option 3 ID : 264330555045

Option 4 ID : 264330555046

Status : Not Answered

Chosen Option : --

**Q.37** Pandit Shiv Kumar Sharma, a renowned instrumentalist, published which of the following books as his autobiography?

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

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

**Q.38** Heal in India is an initiative of the Indian Government aimed at promoting \_\_\_\_\_ in the country.

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

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

**Q.39** 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. Mohiniyattam  
☐ 3. Odissi  
☐ 4. Kathak

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

**Q.40** The idea of 'Fundamental Rights' was taken from the constitution of which of the following countries?

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

Question ID : 26433089947  
Option 1 ID : 264330353268  
Option 2 ID : 264330353265  
Option 3 ID : 264330353267  
Option 4 ID : 264330353266  
Status : Not Answered  
Chosen Option : --

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

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

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

**Q.42** Which field should be used when you want to send a copy of the email to someone else without the original recipient knowing?

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

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

**Q.43 Identify the organism that does NOT belong to the first level trophic level.**

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

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

**Q.44 Where can you find solid form of water?**

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

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

**Q.45 The White Paper on the five themes of Youth20 (Y20) was launched by \_\_\_\_\_ in Guwahati in February 2023.**

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

Question ID : 264330132615  
Option 1 ID : 264330519557  
Option 2 ID : 264330519556  
Option 3 ID : 264330519555  
Option 4 ID : 264330519558  
Status : Answered  
Chosen Option : 3

Q.46 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. cost audit  
☒ 2. legal audit  
☒ 3. statutory audit  
☒ 4. secretarial audit

Question ID : 264330156939

Option 1 ID : 264330615132

Option 2 ID : 264330615133

Option 3 ID : 264330615134

Option 4 ID : 264330615131

Status : Not Answered

Chosen Option : --

Q.47 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. meristematic cell  
☒ 3. reproductive cell  
☒ 4. parenchyma cell

Question ID : 264330110079

Option 1 ID : 264330432594

Option 2 ID : 264330432593

Option 3 ID : 264330432596

Option 4 ID : 264330432595

Status : Not Answered

Chosen Option : --

Q.48 Which of the following is a rabi crop?

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

Question ID : 264330130575

Option 1 ID : 264330511414

Option 2 ID : 264330511413

Option 3 ID : 264330511412

Option 4 ID : 264330511411

Status : Answered

Chosen Option : 1

Q.49 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. Nitrile

☐ 4. Imines

Question ID : 264330114592

Option 1 ID : 264330450456

Option 2 ID : 264330450453

Option 3 ID : 264330450455

Option 4 ID : 264330450454

Status : Not Answered

Chosen Option : --

Q.50 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. Hawaiian Volcano

☐ 2. Mount Shasta Volcano

☐ 3. Mayon Volcano

☐ 4. Mount Rainier Volcano

Question ID : 26433055828

Option 1 ID : 264330218297

Option 2 ID : 264330218298

Option 3 ID : 264330218299

Option 4 ID : 264330218296

Status : Not Answered

Chosen Option : --

Section : General Engineering Electrical

Q.1 In the split-phase induction motor, both main winding and starting winding are displaced \_\_\_\_\_ in space.

Ans ☐ 1. 360 degrees

☐ 2. 180 degrees

☒ 3. 90 degrees

☐ 4. 270 degrees

Question ID : 264330164892

Option 1 ID : 264330646698

Option 2 ID : 264330646696

Option 3 ID : 264330646695

Option 4 ID : 264330646697

Status : Answered

Chosen Option : 3

**Q.2 Choose the most efficient generator for wind power generation.**

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

Question ID : 26433099572

Option 1 ID : 264330390904

Option 2 ID : 264330390902

Option 3 ID : 264330390901

Option 4 ID : 264330390903

Status : Answered

Chosen Option : 2

**Q.3 The barrier potential can be calculated by \_\_\_\_\_ (where, the symbols have their usual meaning).**

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

Question ID : 26433098133

Option 1 ID : 264330385186

Option 2 ID : 264330385188

Option 3 ID : 264330385185

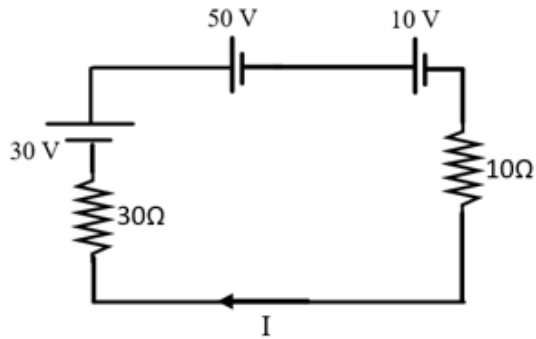
Option 4 ID : 264330385187

Status : Answered

Chosen Option : 3



Q.4 The value of the current  $I$  in the circuit is \_\_\_\_\_.



Ans ☒ 1. -0.75 A

☒ 2. 2.25 A

☒ 3. 0.75 A

☒ 4. -2.25 A

Question ID : 264330160215

Option 1 ID : 264330628199

Option 2 ID : 264330628202

Option 3 ID : 264330628200

Option 4 ID : 264330628201

Status : Answered

Chosen Option : 1

Q.5 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. All of the options

☒ 2. Domestic consumers may also connect directly to the main transmission network.

☒ 3. Rotary converters are also used in railway substations.

☒ 4. At the point of interconnection between two distinct transmission voltages, transformers may be installed in a substation.

Question ID : 264330158153

Option 1 ID : 264330619974

Option 2 ID : 264330619972

Option 3 ID : 264330619973

Option 4 ID : 264330619971

Status : Answered

Chosen Option : 2

Q.6 The admittance of an electric circuit is represented by  $Y = (3 + j4)$ . What is the value of resistance in this circuit?

Ans

☐ 1.  $\frac{4}{25} \Omega$

☐ 2.  $\frac{2}{25} \Omega$

☒ 3.  $\frac{3}{25} \Omega$

☐ 4.  $\frac{1}{25} \Omega$

Question ID : 264330159856

Option 1 ID : 264330626771

Option 2 ID : 264330626773

Option 3 ID : 264330626772

Option 4 ID : 264330626774

Status : Answered

Chosen Option : 3

Q.7 Which of the following lighting calculation methods is handy and quick?

Ans

☐ 1. Flux method

☐ 2. Lumen method

☐ 3. Point by point method

☒ 4. Watts per square metre method

Question ID : 26433098215

Option 1 ID : 264330385516

Option 2 ID : 264330385515

Option 3 ID : 264330385514

Option 4 ID : 264330385513

Status : Answered

Chosen Option : 3

Q.8 The deflection sensitivity in a cathode ray oscilloscope (CRO) is \_\_\_\_\_ the mass of electron.

Ans

☐ 1. directly proportional to

☒ 2. inversely proportional to the square root of

☐ 3. directly proportional to the square root of

☐ 4. inversely proportional to

Question ID : 264330100765

Option 1 ID : 264330395605

Option 2 ID : 264330395608

Option 3 ID : 264330395607

Option 4 ID : 264330395606

Status : Not Answered

Chosen Option : --

Q.9 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. square wave
  - ☒ 2. ramp wave
  - ☒ 3. sine wave
  - ☒ 4. triangular wave

Question ID : 264330157632

Option 1 ID : 264330617889

Option 2 ID : 264330617890

Option 3 ID : 264330617888

Option 4 ID : 264330617887

Status : Answered

Chosen Option : 2

Q.10 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. independent source
  - ☒ 4. ideal source

Question ID : 264330157634

Option 1 ID : 264330617895

Option 2 ID : 264330617898

Option 3 ID : 264330617896

Option 4 ID : 264330617897

Status : Answered

Chosen Option : 1

Q.11 In case of thermal efficiency, by using which of the following relations can 1 KWh of electrical energy be converted into joules?

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

Question ID : 264330157608

Option 1 ID : 264330617793

Option 2 ID : 264330617794

Option 3 ID : 264330617792

Option 4 ID : 264330617791

Status : Answered

Chosen Option : 2

Q.12 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 only occurs when the alternator is operating at no load.
  - ☒ 3. The voltage drop due to armature leakage reactance increases with increasing load.
  - ☒ 4. The voltage drop due to armature leakage reactance is independent of the load.

Question ID : 264330164893

Option 1 ID : 264330646699

Option 2 ID : 264330646702

Option 3 ID : 264330646701

Option 4 ID : 264330646700

Status : Not Answered

Chosen Option : --

Q.13 The phasing out test on a three-phase transformer is carried out to find \_\_\_\_\_.

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

Question ID : 264330100798

Option 1 ID : 264330395737

Option 2 ID : 264330395740

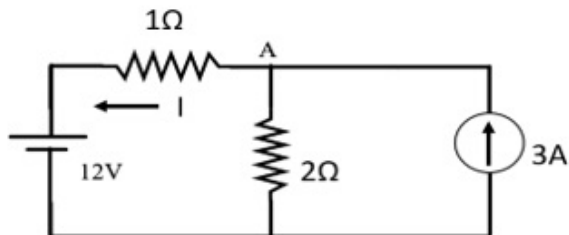
Option 3 ID : 264330395738

Option 4 ID : 264330395739

Status : Answered

Chosen Option : 2

Q.14 In the circuit shown below, the value of the current I is \_\_\_\_\_.



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

Question ID : 26433096485

Option 1 ID : 264330378677

Option 2 ID : 264330378679

Option 3 ID : 264330378678

Option 4 ID : 264330378680

Status : Answered

Chosen Option : 1

Q.15 Repulsion start induction run motors are used in applications such as \_\_\_\_\_.

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

Question ID : 26433099627

Option 1 ID : 264330391122

Option 2 ID : 264330391121

Option 3 ID : 264330391124

Option 4 ID : 264330391123

Status : Answered

Chosen Option : 2

Q.16 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. voltage multiplier circuit
  - ☒ 3. current divider circuit
  - ☒ 4. current multiplier circuit

Question ID : 264330157628

Option 1 ID : 264330617872

Option 2 ID : 264330617874

Option 3 ID : 264330617871

Option 4 ID : 264330617873

Status : Answered

Chosen Option : 2

Q.17 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  $100\pi$  A, placed in air?

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

Question ID : 26433096918

Option 1 ID : 264330380412

Option 2 ID : 264330380410

Option 3 ID : 264330380411

Option 4 ID : 264330380409

Status : Not Answered

Chosen Option : --

**Q.18 Which phase of the project management lifecycle often takes the longest to wrap up?**

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

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

**Q.19 Which of the following is NOT an advantage of shell type transformers over core type transformers?**

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

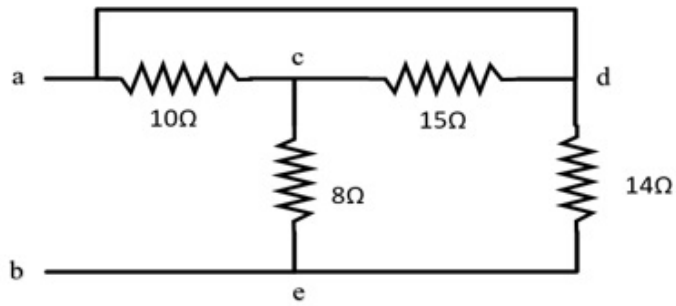
Question ID : 264330163319  
Option 1 ID : 264330640575  
Option 2 ID : 264330640578  
Option 3 ID : 264330640577  
Option 4 ID : 264330640576  
Status : Answered  
Chosen Option : 4

**Q.20 The ability of a capacitor to store charge does NOT depend on the \_\_\_\_.**

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

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

Q.21 Find the equivalent resistance across terminal a-b:



- Ans
- ☒ 1. 14Ω
  - ☒ 2. 20Ω
  - ☒ 3. 7Ω
  - ☒ 4. 28Ω

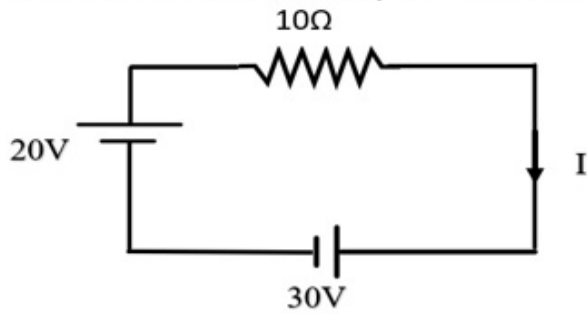
Question ID : 26433096411  
Option 1 ID : 264330378384  
Option 2 ID : 264330378383  
Option 3 ID : 264330378381  
Option 4 ID : 264330378382  
Status : Not Answered  
Chosen Option : --

Q.22 Find the electrical energy consumed in 10Ω resistance when 100 mA current flows for 2 minutes.

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

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

Q.23 In the circuit shown below, the current  $I$  in the circuit is:



Ans ☒ 1. 2 A

☒ 2. -1 A

☒ 3. 1 A

☒ 4. 0 A

Question ID : 26433096455

Option 1 ID : 264330378558

Option 2 ID : 264330378559

Option 3 ID : 264330378557

Option 4 ID : 264330378560

Status : Answered

Chosen Option : 2

Q.24 In case of magnetic circuits, the force that tends to create magnetic flux is called \_\_\_\_\_.

Ans ☒ 1. relative permeability

☒ 2. reluctance

☒ 3. absolute permeability

☒ 4. MMF

Question ID : 264330157666

Option 1 ID : 264330618026

Option 2 ID : 264330618023

Option 3 ID : 264330618024

Option 4 ID : 264330618025

Status : Answered

Chosen Option : 4

Q.25 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.26 Which of the following statements is accurate regarding wires and cables?**

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

Question ID : 264330158152

Option 1 ID : 264330619967

Option 2 ID : 264330619968

Option 3 ID : 264330619970

Option 4 ID : 264330619969

Status : Answered

Chosen Option : 4

**Q.27 The standard percentage of the tender amount for the security deposit is \_\_\_\_.**

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

Question ID : 264330158173

Option 1 ID : 264330620054

Option 2 ID : 264330620051

Option 3 ID : 264330620053

Option 4 ID : 264330620052

Status : Answered

Chosen Option : 3

**Q.28 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 A
- ☒ 4. 0.236 A

Question ID : 264330163311

Option 1 ID : 264330640544

Option 2 ID : 264330640546

Option 3 ID : 264330640543

Option 4 ID : 264330640545

Status : Not Answered

Chosen Option : --

Q.29 In a capacitor-start capacitor-run induction motor, under standstill condition forward and backward voltages are \_\_\_\_\_.

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

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

Q.30 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. 9 Volts
  - ☐ 2. 9.99 Volts
  - ☒ 3. 6 Volts
  - ☐ 4. 6.66 Volts

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

Q.31 In the context of electromagnetic induction, if the magnetic fluxes of two coils oppose each other, then the connection is called \_\_\_\_\_.

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

Question ID : 264330157620  
Option 1 ID : 264330617841  
Option 2 ID : 264330617840  
Option 3 ID : 264330617839  
Option 4 ID : 264330617842  
Status : Answered  
Chosen Option : 4

Q.32 At the leading power factor, the armature reaction of an alternator is:

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

Question ID : 26433099519

Option 1 ID : 264330390690

Option 2 ID : 264330390692

Option 3 ID : 264330390691

Option 4 ID : 264330390689

Status : Answered

Chosen Option : 2

Q.33 Reciprocity theorem CANNOT be applied to the circuit having \_\_\_\_.

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

Question ID : 26433096473

Option 1 ID : 264330378631

Option 2 ID : 264330378630

Option 3 ID : 264330378632

Option 4 ID : 264330378629

Status : Answered

Chosen Option : 2

Q.34 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 : 264330637735

Option 2 ID : 264330637738

Option 3 ID : 264330637736

Option 4 ID : 264330637737

Status : Answered

Chosen Option : 2

Q.35 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 : 1

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

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

Question ID : 264330166286

Option 1 ID : 264330652206

Option 2 ID : 264330652203

Option 3 ID : 264330652205

Option 4 ID : 264330652204

Status : Answered

Chosen Option : 4

Q.37 Which of the following is a ferromagnetic material?

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

Question ID : 26433096880

Option 1 ID : 264330380260

Option 2 ID : 264330380257

Option 3 ID : 264330380258

Option 4 ID : 264330380259

Status : Answered

Chosen Option : 2

Q.38 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. 7%
- ☐ 3. 9%
- ☒ 4. 3%

Question ID : 26433099582

Option 1 ID : 264330390942

Option 2 ID : 264330390943

Option 3 ID : 264330390944

Option 4 ID : 264330390941

Status : Answered

Chosen Option : 4

Q.39 Which of the following is NOT a desirable property for the insulating materials used in an underground cable?

Ans

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

Question ID : 264330158127

Option 1 ID : 264330619868

Option 2 ID : 264330619867

Option 3 ID : 264330619870

Option 4 ID : 264330619869

Status : Answered

Chosen Option : 1

Q.40 The transfer characteristic of JFET is drawn between:

Ans

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

Question ID : 264330159777

Option 1 ID : 264330626458

Option 2 ID : 264330626457

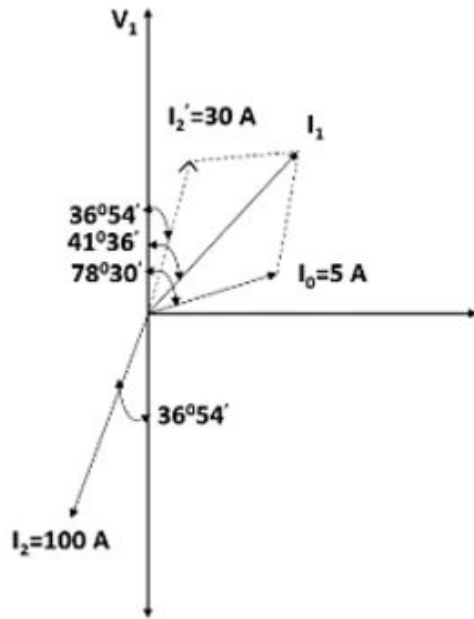
Option 3 ID : 264330626456

Option 4 ID : 264330626455

Status : Answered

Chosen Option : 2

Q.41 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.  $\sqrt{1178}$  A
  - ☒ 2. 30 A
  - ☒ 3.  $\sqrt{1140.4}$  A
  - ☒ 4.  $\sqrt{1149.4}$  A

Question ID : 264330162910

Option 1 ID : 264330638958

Option 2 ID : 264330638957

Option 3 ID : 264330638956

Option 4 ID : 264330638955

Status : Not Answered

Chosen Option : --

Q.42 A 2500 watts refrigerator works for 4 hours per day. Find the total unit of electricity used in 40 days.

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

Question ID : 26433096417

Option 1 ID : 264330378405

Option 2 ID : 264330378407

Option 3 ID : 264330378406

Option 4 ID : 264330378408

Status : Answered

Chosen Option : 2

Q.43 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 b, c and d are correct.
- ☒ 2. Only a, b and d are correct.
- ☒ 3. Only c is correct.
- ☒ 4. Only d is correct.

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

Q.44 The electrical pressure measured between any two points in an electrical circuit is called \_\_\_\_\_.

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

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

Q.45 Which of the following is true regarding reciprocity theorem?

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

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

Q.46 For measuring the earth resistance by the fall-of-potential method, how many auxiliary electrodes are used?

- Ans
- ☐ 1. 1
  - ☐ 2. 3
  - ☐ 3. 4
  - ☒ 4. 2

Question ID : 264330160648

Option 1 ID : 264330629926

Option 2 ID : 264330629924

Option 3 ID : 264330629923

Option 4 ID : 264330629925

Status : Answered

Chosen Option : 4

Q.47 Which of the following connections is used as distribution transformer?

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

Question ID : 26433096108

Option 1 ID : 264330377204

Option 2 ID : 264330377202

Option 3 ID : 264330377201

Option 4 ID : 264330377203

Status : Answered

Chosen Option : 2

Q.48 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.  $V_{CE}$  and  $I_C$
  - ☐ 3.  $V_{BE}$  and  $I_E$
  - ☐ 4.  $V_{EE}$  and  $I_B$

Question ID : 264330159772

Option 1 ID : 264330626436

Option 2 ID : 264330626437

Option 3 ID : 264330626435

Option 4 ID : 264330626438

Status : Not Answered

Chosen Option : --



**Q.49 What is the use of encoder in the DC servomotor?**

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

Question ID : 264330164866

Option 1 ID : 264330646592

Option 2 ID : 264330646591

Option 3 ID : 264330646593

Option 4 ID : 264330646594

Status : Answered

Chosen Option : 2

**Q.50 In motor applications, efficiency of the motor is always less than 100% due to conversion of the \_\_\_\_.**

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

Question ID : 264330157606

Option 1 ID : 264330617785

Option 2 ID : 264330617783

Option 3 ID : 264330617786

Option 4 ID : 264330617784

Status : Answered

Chosen Option : 4

**Q.51 Which of the following overhead conductor materials is preferred for the harmful gas (like ammonia) atmosphere?**

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

Question ID : 264330159734

Option 1 ID : 264330626291

Option 2 ID : 264330626292

Option 3 ID : 264330626294

Option 4 ID : 264330626293

Status : Answered

Chosen Option : 1

Q.52 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. 1 : 2
  - ☒ 2. 1.5 : 1
  - ☒ 3. 1 : 1.5
  - ☒ 4. 2 : 1

Question ID : 264330100794

Option 1 ID : 264330395721

Option 2 ID : 264330395723

Option 3 ID : 264330395724

Option 4 ID : 264330395722

Status : Not Answered

Chosen Option : --

Q.53 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 C
  - ☒ 2. A and B
  - ☒ 3. Only C
  - ☒ 4. B and C

Question ID : 264330158066

Option 1 ID : 264330619624

Option 2 ID : 264330619623

Option 3 ID : 264330619626

Option 4 ID : 264330619625

Status : Answered

Chosen Option : 2

Q.54 A switched reluctance motor can produce torque at a speed \_\_\_\_\_.

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

Question ID : 264330164869

Option 1 ID : 264330646604

Option 2 ID : 264330646603

Option 3 ID : 264330646606

Option 4 ID : 264330646605

Status : Answered

Chosen Option : 3

Q.55 In AC series motor, power factor is low because of \_\_\_\_\_.

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

Question ID : 26433098250

Option 1 ID : 264330385654

Option 2 ID : 264330385653

Option 3 ID : 264330385655

Option 4 ID : 264330385656

Status : Not Answered

Chosen Option : --

Q.56 The advantage of the stationary armature of a synchronous machine is:

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

Question ID : 26433099513

Option 1 ID : 264330390667

Option 2 ID : 264330390665

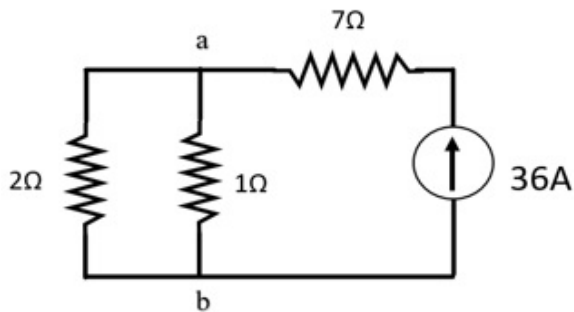
Option 3 ID : 264330390666

Option 4 ID : 264330390668

Status : Answered

Chosen Option : 4

Q.57 The current through the  $2\Omega$  resistor is:



- Ans
- ☒ 1. 12A from a to b
  - ☐ 2. 1A from a to b
  - ☐ 3. 25A from b to a
  - ☐ 4. 10A from b to a

Question ID : 26433096449

Option 1 ID : 264330378535

Option 2 ID : 264330378533

Option 3 ID : 264330378534

Option 4 ID : 264330378536

Status : Answered

Chosen Option : 1

Q.58 Identify the correct voltage range of medium transmission line.

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

Question ID : 264330159733

Option 1 ID : 264330626287

Option 2 ID : 264330626288

Option 3 ID : 264330626290

Option 4 ID : 264330626289

Status : Answered

Chosen Option : 4

Q.59 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)

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

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

Question ID : 264330158122

Option 1 ID : 264330619847

Option 2 ID : 264330619849

Option 3 ID : 264330619850

Option 4 ID : 264330619848

Status : Answered

Chosen Option : 1

**Q.61** What is the main reason of placing field winding on the stationary rotor?

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

Question ID : 264330164898

Option 1 ID : 264330646720

Option 2 ID : 264330646722

Option 3 ID : 264330646721

Option 4 ID : 264330646719

Status : Answered

Chosen Option : 1

**Q.62** For providing controlling torque to a horizontally mounted MI instrument, which of the following methods is used?

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

Question ID : 264330162663

Option 1 ID : 264330637974

Option 2 ID : 264330637973

Option 3 ID : 264330637972

Option 4 ID : 264330637971

Status : Answered

Chosen Option : 2

Q.63 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. 500  $\Omega$   
☒ 2. 400  $\Omega$   
☒ 3. 600  $\Omega$   
☒ 4. 300  $\Omega$

Question ID : 264330162826

Option 1 ID : 264330638621

Option 2 ID : 264330638620

Option 3 ID : 264330638622

Option 4 ID : 264330638619

Status : Answered

Chosen Option : 2

Q.64 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. 83.33 kg/s  
☒ 3. 0.833 kg/s  
☒ 4. 8.33 kg/s

Question ID : 264330158074

Option 1 ID : 264330619657

Option 2 ID : 264330619658

Option 3 ID : 264330619655

Option 4 ID : 264330619656

Status : Not Answered

Chosen Option : --

Q.65 A permanent magnetic material has \_\_\_\_\_ retentivity.

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

Question ID : 26433096919

Option 1 ID : 264330380415

Option 2 ID : 264330380414

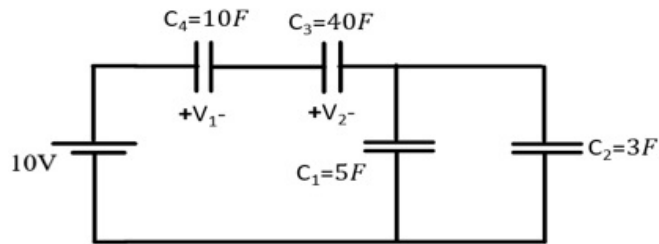
Option 3 ID : 264330380413

Option 4 ID : 264330380416

Status : Answered

Chosen Option : 1

Q.66 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 : Not Answered

Chosen Option : --

Q.67 During working of a permanent magnet synchronous motor, \_\_\_\_\_.

- Ans
- ☒ 1. rotor produces constant magnetic field and stator produces 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. stator and rotor both produce rotating magnetic field

Question ID : 264330164863

Option 1 ID : 264330646582

Option 2 ID : 264330646580

Option 3 ID : 264330646579

Option 4 ID : 264330646581

Status : Not Answered

Chosen Option : --

Q.68 Which of the following statements is true about selection of the size of units in electrical energy generation?

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

Question ID : 264330158076

Option 1 ID : 264330619665

Option 2 ID : 264330619664

Option 3 ID : 264330619666

Option 4 ID : 264330619663

Status : Not Answered

Chosen Option : --

Q.69 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. 40 VA  
☒ 2. 50 VA  
☐ 3. 100 VA  
☐ 4. 75 VA

Question ID : 264330159433

Option 1 ID : 264330625094

Option 2 ID : 264330625092

Option 3 ID : 264330625091

Option 4 ID : 264330625093

Status : Answered

Chosen Option : 2

Q.70 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.  $E = 4fN_1\phi_m A$   
☐ 2.  $E = 4.44fN_1\phi_m A$   
☐ 3.  $E = 4.44fN_1B_m$   
☒ 4.  $E = 4.44fN_1\phi_m$

Question ID : 264330162917

Option 1 ID : 264330638986

Option 2 ID : 264330638983

Option 3 ID : 264330638985

Option 4 ID : 264330638984

Status : Answered

Chosen Option : 4

Q.71 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. 300 kV  
☐ 4. 125 kV

Question ID : 264330158089

Option 1 ID : 264330619718

Option 2 ID : 264330619715

Option 3 ID : 264330619717

Option 4 ID : 264330619716

Status : Answered

Chosen Option : 2



Q.72 Which law gives the direction of induced EMF?

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

Question ID : 264330160222

Option 1 ID : 264330628227

Option 2 ID : 264330628228

Option 3 ID : 264330628230

Option 4 ID : 264330628229

Status : Answered

Chosen Option : 1

Q.73 Which of the following is NOT a type of tender, depending on the type of contract?

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

Question ID : 264330158168

Option 1 ID : 264330620032

Option 2 ID : 264330620031

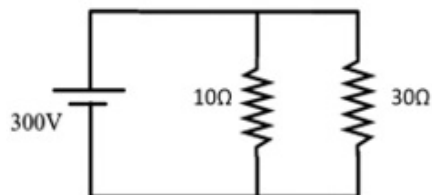
Option 3 ID : 264330620034

Option 4 ID : 264330620033

Status : Answered

Chosen Option : 2

Q.74 The power consumed by the  $30\ \Omega$  resistor is:



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

Question ID : 26433096421

Option 1 ID : 264330378421

Option 2 ID : 264330378422

Option 3 ID : 264330378423

Option 4 ID : 264330378424

Status : Answered

Chosen Option : 4

**Q.75** 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. 0.694 kW
  - ☒ 3. 0.694 MW
  - ☒ 4. 1.39 kW

Question ID : 264330158046

Option 1 ID : 264330619546

Option 2 ID : 264330619543

Option 3 ID : 264330619545

Option 4 ID : 264330619544

Status : Not Answered

Chosen Option : --

**Q.76** 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. Neither I nor II
  - ☒ 2. Only II
  - ☒ 3. Only I
  - ☒ 4. Both I and II

Question ID : 264330158073

Option 1 ID : 264330619654

Option 2 ID : 264330619652

Option 3 ID : 264330619651

Option 4 ID : 264330619653

Status : Answered

Chosen Option : 2

**Q.77** 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. Conditions of supply
  - ☒ 3. Cost of packaging and shipping
  - ☒ 4. Confidence that faulty goods will be replaced

Question ID : 264330158157

Option 1 ID : 264330619988

Option 2 ID : 264330619989

Option 3 ID : 264330619990

Option 4 ID : 264330619987

Status : Answered

Chosen Option : 4

**Q.78** 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 control the speed of the motor
  - ☒ 2. To prevent the motor from running away in case of an open-field circuit
  - ☒ 3. To provide the lubricant for the motor
  - ☒ 4. To disconnect the supply when the motor is in normal operation

Question ID : 264330163303

Option 1 ID : 264330640511

Option 2 ID : 264330640514

Option 3 ID : 264330640513

Option 4 ID : 264330640512

Status : Answered

Chosen Option : 2

**Q.79** In a pure inductive circuit, if the frequency of the AC source is doubled, then its inductive reactance will:

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

Question ID : 264330159439

Option 1 ID : 264330625117

Option 2 ID : 264330625115

Option 3 ID : 264330625116

Option 4 ID : 264330625118

Status : Answered

Chosen Option : 2

**Q.80** 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 : Answered

Chosen Option : 4

Q.81 Which of the following types of steel is used to make the core of a transformer?

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

Question ID : 264330163317

Option 1 ID : 264330640568

Option 2 ID : 264330640570

Option 3 ID : 264330640569

Option 4 ID : 264330640567

Status : Answered

Chosen Option : 3

Q.82 The split-phase induction motor is NOT used for drives that require more than \_\_\_\_\_.

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

Question ID : 264330164886

Option 1 ID : 264330646674

Option 2 ID : 264330646672

Option 3 ID : 264330646673

Option 4 ID : 264330646671

Status : Answered

Chosen Option : 4

Q.83 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.  $W_e = kB_{\max}^2 f t^2 V^2$  watts  
☒ 3.  $W_e = kB_{\max}^2 f^2 t^2 V$  watts  
☒ 4.  $W_e = kB_{\max}^2 f^2 t^2 V^2$  watts

Question ID : 264330163301

Option 1 ID : 264330640505

Option 2 ID : 264330640503

Option 3 ID : 264330640506

Option 4 ID : 264330640504

Status : Answered

Chosen Option : 4

**Q.84** 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. 96%

☐ 2. 92%

☐ 3. 95%

☐ 4. 90%

Question ID : 264330162906

Option 1 ID : 264330638939

Option 2 ID : 264330638942

Option 3 ID : 264330638941

Option 4 ID : 264330638940

Status : Answered

Chosen Option : 1

**Q.85** 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. 15.34 kW

☐ 2. 22.45 kW

☒ 3. 25.4 kW

☐ 4. 19.13 kW

Question ID : 26433098297

Option 1 ID : 264330385842

Option 2 ID : 264330385843

Option 3 ID : 264330385844

Option 4 ID : 264330385841

Status : Answered

Chosen Option : 4

**Q.86** Which of the following statements is NOT correct about the significance of stationary armature alternator?

Ans ☐ 1. The armature windings can be braced better mechanically against the high electromagnetic force.

☒ 2. The output current can be easily taken from rotor winding.

☐ 3. The rotating field type alternator has a smaller size than the rotating armature type.

☐ 4. The armature windings of the rotating field alternator are not subjected to centrifugal forces.

Question ID : 26433099540

Option 1 ID : 264330390774

Option 2 ID : 264330390776

Option 3 ID : 264330390775

Option 4 ID : 264330390773

Status : Not Answered

Chosen Option : --

Q.87 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.  $P = 1900 \text{ W}$   
☒ 2.  $P = 1000 \text{ W}$   
☒ 3.  $P = 1800 \text{ W}$   
☒ 4.  $P = 1500 \text{ W}$

Question ID : 264330159591

Option 1 ID : 264330625723

Option 2 ID : 264330625726

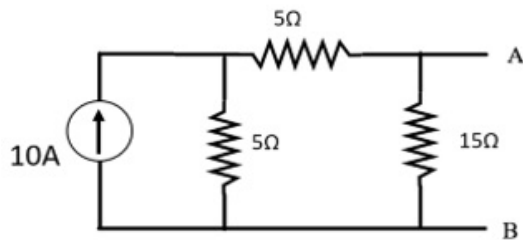
Option 3 ID : 264330625724

Option 4 ID : 264330625725

Status : Answered

Chosen Option : 1

Q.88 The Norton's equivalent current between the load terminal A-B will be:



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

Question ID : 26433096468

Option 1 ID : 264330378611

Option 2 ID : 264330378612

Option 3 ID : 264330378609

Option 4 ID : 264330378610

Status : Not Answered

Chosen Option : --

Q.89 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 A

☒ 2. Only B

☒ 3. Only A and D

☒ 4. Only C

Question ID : 264330159780

Option 1 ID : 264330626467

Option 2 ID : 264330626468

Option 3 ID : 264330626470

Option 4 ID : 264330626469

Status : Answered

Chosen Option : 3

Q.90 What is the function of the phosphor-coated screen in a CRT?

Ans ☒ 1. It is the part that moves the direction of the electron beam

☒ 2. It is the part that regulates the intensity of the electron beam

☒ 3. It is the part that emits light

☒ 4. It is the part that generates a beam of electrons

Question ID : 264330157574

Option 1 ID : 264330617657

Option 2 ID : 264330617658

Option 3 ID : 264330617656

Option 4 ID : 264330617655

Status : Answered

Chosen Option : 1

Q.91 What type of rotor is used in alternators driven by hydro-turbines?

Ans ☒ 1. Salient pole type

☒ 2. Smooth cylindrical type

☒ 3. Shaded pole type

☒ 4. Non-salient pole type

Question ID : 26433099512

Option 1 ID : 264330390661

Option 2 ID : 264330390662

Option 3 ID : 264330390664

Option 4 ID : 264330390663

Status : Answered

Chosen Option : 1

Q.92 The horizontal amplifier should be designed for \_\_\_\_\_.

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

Question ID : 26433098259

Option 1 ID : 264330385690

Option 2 ID : 264330385692

Option 3 ID : 264330385689

Option 4 ID : 264330385691

Status : Answered

Chosen Option : 2

Q.93 An LC circuit with inductance  $L = 2\text{H}$  and capacitance  $C = 8\text{ }\mu\text{F}$  is connected to an AC source. Find the value of the power factor of combination.

- Ans ☐ 1. 2
- ☐ 2. 10
- ☐ 3. 8
- ☒ 4. 0

Question ID : 264330159512

Option 1 ID : 264330625409

Option 2 ID : 264330625410

Option 3 ID : 264330625408

Option 4 ID : 264330625407

Status : Not Answered

Chosen Option : --

Q.94 A voltage of  $230\angle 60^\circ$  is applied to a current offering an impedance of  $10 + j10\text{ }\Omega$ . Find the expression for the current flowing through the circuit in polar form.

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

Question ID : 26433098282

Option 1 ID : 264330385784

Option 2 ID : 264330385783

Option 3 ID : 264330385781

Option 4 ID : 264330385782

Status : Not Answered

Chosen Option : --



**Q.95 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 resistance.  
☒ 2. Active power can be measured in terms of kilo watt.  
☒ 3. Active power is the power dissipated in the pure inductance.  
☒ 4. Active power depends on power factor.

Question ID : 26433098289

Option 1 ID : 264330385810

Option 2 ID : 264330385812

Option 3 ID : 264330385811

Option 4 ID : 264330385809

Status : Answered

Chosen Option : 3

**Q.96 In an electrical circuit, the current that changes periodically, both in magnitude and direction, at regular intervals of time is called \_\_\_\_.**

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

Question ID : 264330157631

Option 1 ID : 264330617885

Option 2 ID : 264330617886

Option 3 ID : 264330617884

Option 4 ID : 264330617883

Status : Answered

Chosen Option : 3

**Q.97 The wavelength of a sodium vapour lamp is \_\_\_\_.**

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

Question ID : 26433098205

Option 1 ID : 264330385473

Option 2 ID : 264330385474

Option 3 ID : 264330385475

Option 4 ID : 264330385476

Status : Answered

Chosen Option : 3

**Q.98** 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 IV  
☒ 2. Only III and IV  
☒ 3. Only I and II  
☒ 4. Only I and IV

Question ID : 264330160630

Option 1 ID : 264330629854

Option 2 ID : 264330629852

Option 3 ID : 264330629851

Option 4 ID : 264330629853

Status : Not Answered

Chosen Option : --

**Q.99** Three-point lighting is usually employed in film lighting schemes. Which of the following does NOT form a part of the scheme?

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

Question ID : 264330100102

Option 1 ID : 264330392983

Option 2 ID : 264330392984

Option 3 ID : 264330392982

Option 4 ID : 264330392981

Status : Answered

Chosen Option : 3

**Q.100** 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.  $I^2R$  losses  
☒ 3. eddy current loss  
☒ 4. hysteresis loss

Question ID : 264330157615

Option 1 ID : 264330617819

Option 2 ID : 264330617820

Option 3 ID : 264330617822

Option 4 ID : 264330617821

Status : Answered

Chosen Option : 2