

EAD ONLINE CLASSES

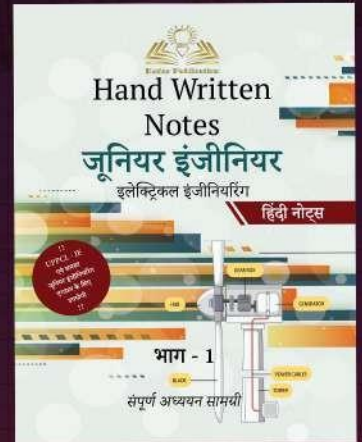
Objective Book for

Electrical-JE

Electronics-JE

ITI-Electrician

JE Short Notes



Buy our Books at:-

eadbooks.in
 Amazon

Exam Targeted:-

UPPCL-JE, SSC-JE RRB-JE
PGCIL-DT, DFCCIL-JE, ITI Etc.



Raman sir
Electrical Engg. Expert



LOCATION

DEHRADUN CENTRE

EAD Educational Group, Pithuwalan kalan, Dehradun (UK)

PRAYAGRAJ CENTRE

EAD Educational Group, Horizon public school,
Pandey Tower, Om gayatari nagar, Near shiv chowraha ,
Salori Prayagraj (UP)

Contact us:-

9389976136

Download EAD Online Classes application on playstore



EAD GROUP

Junior Engineer Civil Mechanical and Electrical Examination 2023 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	10/10/2023
Exam Time	1:00 PM - 3:00 PM
Subject	Junior Engineer 2023 Electrical Paper I

Section : General Intelligence and Reasoning

Q.1 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. World
2. India
3. Bangalore
4. Asia
5. Karnataka

Ans 1. 35412
 2. 21435
 3. 14235
 4. 35241

Question ID : 264330131041
Option 1 ID : 264330513275
Option 2 ID : 264330513277
Option 3 ID : 264330513278
Option 4 ID : 264330513276

Status : Answered
Chosen Option : 3

Q.2 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some apartments are bungalows.
Some bungalows are flats.

Conclusions:

- I. Some apartments are flats.
- II. Some flats are bungalows.

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

Question ID : 264330144651
Option 1 ID : 264330566861
Option 2 ID : 264330566859
Option 3 ID : 264330566862
Option 4 ID : 264330566860

Status : Answered
Chosen Option : 2

Q.3 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
9 : 99 :: 12 : 168 :: 15 : ?

- Ans 1. 255
 2. 250
 3. 225
 4. 205

Question ID : 264330122551
Option 1 ID : 264330480329
Option 2 ID : 264330480330
Option 3 ID : 264330480328
Option 4 ID : 264330480327
Status : Answered
Chosen Option : 1

Q.4 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
Z__MI_CB_I ZC_M_ZC__I

- Ans 1. CBZBIMBM
 2. CBZMBIBM
 3. CBZIBMBM
 4. CBZBMIBM

Question ID : 26433068919
Option 1 ID : 264330270190
Option 2 ID : 264330270188
Option 3 ID : 264330270191
Option 4 ID : 264330270189
Status : Not Answered
Chosen Option : --

Q.5 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.

12 : 156 :: ? : 240 :: 22 : 506

- Ans 1. 17
 2. 15
 3. 16
 4. 14

Question ID : 264330144435
Option 1 ID : 264330565998
Option 2 ID : 264330565996
Option 3 ID : 264330565997
Option 4 ID : 264330565995
Status : Answered
Chosen Option : 3

Q.6 Which letter-cluster will replace the question mark (?) to complete the given series?

GZIM, HBFI, ?, JFZA, KHWW

Ans 1. ICTZ

2. IKBW

3. IDCE

4. IRTY

Question ID : 264330144501

Option 1 ID : 264330566262

Option 2 ID : 264330566259

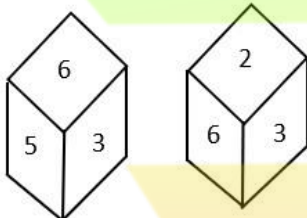
Option 3 ID : 264330566260

Option 4 ID : 264330566261

Status : Answered

Chosen Option : 3

Q.7 Two different positions of the same dice are shown. Find the number on the top if it is resting on '2'.



Ans 1. 4

2. 3

3. 1

4. 5

Question ID : 26433079353

Option 1 ID : 264330311401

Option 2 ID : 264330311402

Option 3 ID : 264330311403

Option 4 ID : 264330311400

Status : Answered

Chosen Option : 4

EAD GROUP

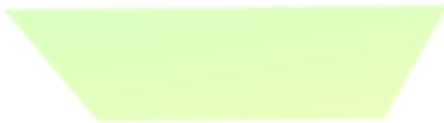
Q.8 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(5, 9, 27)

(9, 15, 47)

- Ans 1. (18, 5, 45)
 2. (6, 11, 35)
 3. (14, 9, 54)
 4. (13, 7, 38)

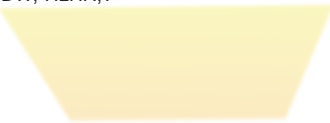


Question ID : 264330144426
Option 1 ID : 264330565961
Option 2 ID : 264330565959
Option 3 ID : 264330565962
Option 4 ID : 264330565960
Status : Answered
Chosen Option : 1

Q.9 Which letter-cluster will replace the question mark (?) to complete the given series?

PJVG, VBZB, BTDW, HLHR, ?

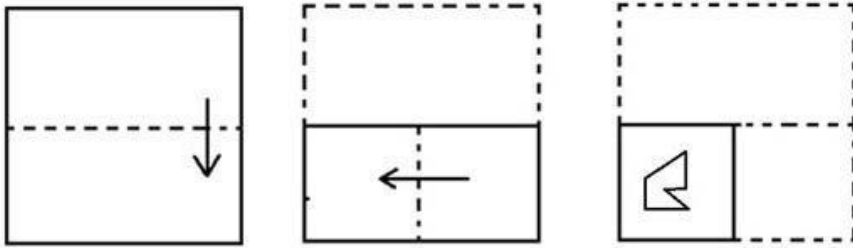
- Ans 1. MDLM
 2. NDLN
 3. NDLM
 4. MDLN



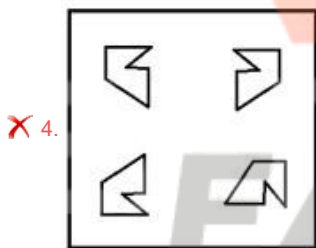
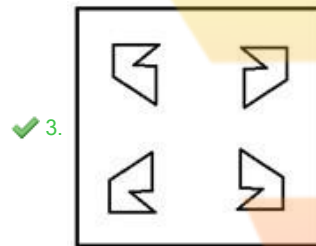
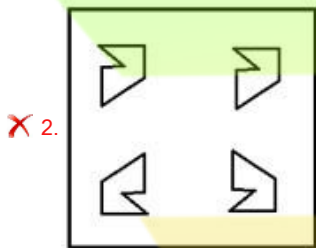
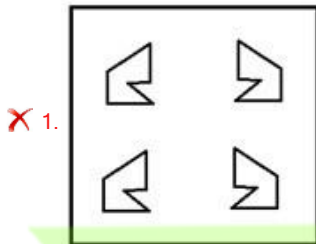
Question ID : 264330144622
Option 1 ID : 264330566744
Option 2 ID : 264330566745
Option 3 ID : 264330566746
Option 4 ID : 264330566743
Status : Answered
Chosen Option : 3

EAD GROUP

Q.10 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose a figure which would most closely resemble the unfolded form of the paper.



Ans



Question ID : 264330103215
 Option 1 ID : 264330405166
 Option 2 ID : 264330405165
 Option 3 ID : 264330405168
 Option 4 ID : 264330405167

Status : Answered

Chosen Option : 3

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.)
Fan : Breeze

- Ans
- 1. Stove : Fire
 - 2. Glass : Bowl
 - 3. Food : Hunger
 - 4. Bottle : Water

Question ID : 264330117400
Option 1 ID : 264330461642
Option 2 ID : 264330461641
Option 3 ID : 264330461644
Option 4 ID : 264330461643
Status : Answered
Chosen Option : 2

Q.12 R is son of P. Q is mother of N. M is husband of N. M is R's sister's husband. If O is the son of N, then how is P related to O?

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

Question ID : 26433099143
Option 1 ID : 264330389188
Option 2 ID : 264330389186
Option 3 ID : 264330389187
Option 4 ID : 264330389185
Status : Answered
Chosen Option : 4

Q.13 P, Q, R, S, T, U, V, and W are sitting around a square table facing the centre. Some of them are sitting at the corners while some are sitting at the exact centre of the sides. P is sitting to the immediate left of W and immediate right of U. S is sitting to the immediate left of U and immediate right of T. T is sitting to the immediate right of R. V is sitting between R and Q. Who is sitting between P and Q counting from the right of P?

- Ans
- 1. R
 - 2. S
 - 3. T
 - 4. W

Question ID : 26433074620
Option 1 ID : 264330292571
Option 2 ID : 264330292568
Option 3 ID : 264330292569
Option 4 ID : 264330292570
Status : Not Answered
Chosen Option : --

Q.14 Ravina departs from her home and walks 55 m towards the east. She then turns right and walks 24 m. She turns right again and walks 68 m. She takes a final left turn and walks 16 m. How far is she from a pole which is exactly 40 m to the south of her home?
(Assume that all the turns are 90° turns only.)

Ans 1. 33 m

2. 13 m

3. 44 m

4. 27 m

Question ID : 264330131618

Option 1 ID : 264330515572

Option 2 ID : 264330515571

Option 3 ID : 264330515573

Option 4 ID : 264330515574

Status : Answered

Chosen Option : 2

Q.15 Seven friends Swami, Lav, Akhil, Arun, Shubh, Vivek and Gyan, each has different ages. Akhil is older than only two people. Lav is older than Swami. Vivek is older than only three people. Swami is younger than only two people. Gyan is neither the eldest nor the youngest. Lav is older than Vivek but not older than Shubh. Who is the youngest?

Ans 1. Shubh

2. Akhil

3. Gyan

4. Arun

Question ID : 26433069525

Option 1 ID : 264330272613

Option 2 ID : 264330272614

Option 3 ID : 264330272615

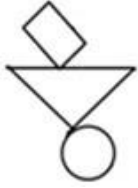
Option 4 ID : 264330272612

Status : Not Attempted and
Marked For Review

Chosen Option : --

EAD GROUP

Q.16 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans

✗ 1.



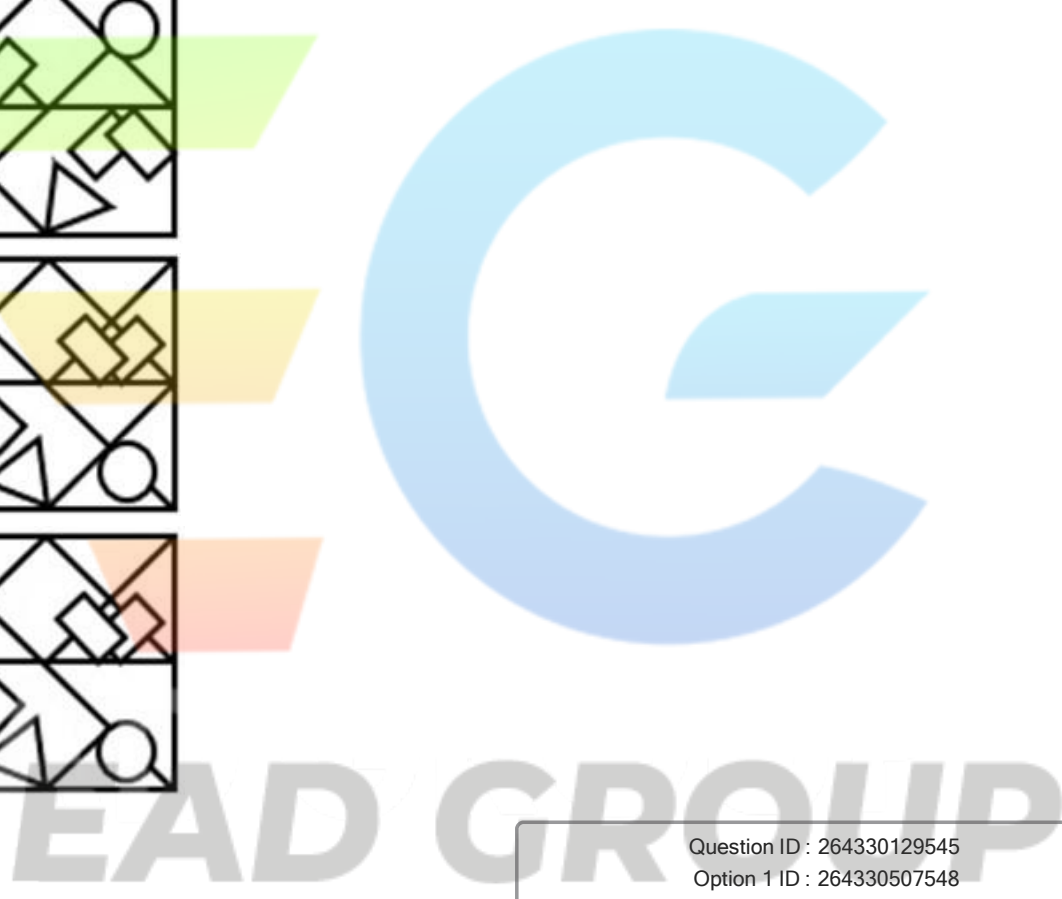
✗ 2.



✓ 3.



✗ 4.



Question ID : 264330129545
Option 1 ID : 264330507548
Option 2 ID : 264330507547
Option 3 ID : 264330507549
Option 4 ID : 264330507546
Status : Answered
Chosen Option : 3

Q.17 Select the correct combination of mathematical signs to replace "%" which balances the following equation.

$$64 \% 8 \% 3 \% 6 \% 4 \% 8 \% 2$$

- Ans
- 1. +, x, +, =, -, +
 - 2. +, x, =, -, +, +
 - 3. +, x, +, =, x, -
 - 4. x, +, =, -, +, x

Question ID : 264330129647
Option 1 ID : 264330507957
Option 2 ID : 264330507954
Option 3 ID : 264330507956
Option 4 ID : 264330507955
Status : Answered
Chosen Option : 3

Q.18 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series

Q _ R _ _ _ UR _ A _ _ RLA

- Ans
- 1. RALQLAQ
 - 2. ALQUQLU
 - 3. ULAQLQU
 - 4. QLUQLAU

Question ID : 26433086960
Option 1 ID : 264330341481
Option 2 ID : 264330341483
Option 3 ID : 264330341482
Option 4 ID : 264330341484
Status : Answered
Chosen Option : 3

Q.19 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

$$15 * 4 * 5 * 2 * 10 = 20$$

- Ans
- 1. x+ - +
 - 2. + - + x
 - 3. + x - +
 - 4. + + + x

Question ID : 26433068592
Option 1 ID : 264330268880
Option 2 ID : 264330268882
Option 3 ID : 264330268881
Option 4 ID : 264330268883
Status : Answered
Chosen Option : 1

Q.20 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

PYETAU |
P
Q

- Ans
- 1. PYETAU
 - 2. UATEYB
 - 3. UATEYB
 - 4. PYETAU

Question ID : 26433056837

Option 1 ID : 264330222334

Option 2 ID : 264330222333

Option 3 ID : 264330222332

Option 4 ID : 264330222335

Status : Answered

Chosen Option : 2

Q.21 Point A is 26 m to the south of Point B. Point C is 13 m to the east of Point B. Point C is 39 m to the north of Point D. Point D is 14 m to the west of Point E. Point F is 13 m to the north of Point E. Point G is 40 m to the west of Point F. Point H is to the north of Point G and also to the west of Point C. In which direction is Point H with respect to Point F?

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

Question ID : 264330131632

Option 1 ID : 264330515628

Option 2 ID : 264330515629

Option 3 ID : 264330515627

Option 4 ID : 264330515630

Status : Answered

Chosen Option : 1

Q.22 In a certain code language, 'BOOTS' is coded as '64', and 'SHOES' is coded as '69'. How will 'HEELS' be coded in that language?

- Ans
- 1. 1. 74
 - 2. 2. 64
 - 3. 3. 78
 - 4. 4. 86

Question ID : 264330144595

Option 1 ID : 264330566638

Option 2 ID : 264330566637

Option 3 ID : 264330566635

Option 4 ID : 264330566636

Status : Not Answered

Chosen Option : --

Q.23 Three statements are given followed by three conclusions numbered I, II and III. 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 goods are services.

Some services are applications.

All applications are forms.

Conclusions:

I. All goods can never be applications.

II. At least some services are forms.

III. No good is a form.

Ans 1. None

follows

2. Only II follows

3. Only I follows

4. Only II and III follow

Question ID : 264330144509

Option 1 ID : 264330566293

Option 2 ID : 264330566294

Option 3 ID : 264330566291

Option 4 ID : 264330566292

Status : Answered

Chosen Option : 1

Q.24 'Q + R' means 'Q is the husband of R',
'Q - R' means 'Q is the father of R',
'Q * R' means 'Q is the mother of R', and
'Q @ R' means 'Q is the daughter of R'.
If M + V @ P - U, how is M related to U?

Ans 1. Father's brother

2. Sister's husband

3. Father

4. Brother

Question ID : 264330131399

Option 1 ID : 264330514709

Option 2 ID : 264330514707

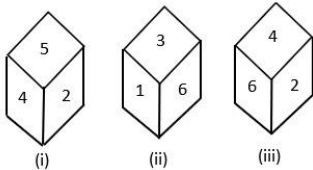
Option 3 ID : 264330514708

Option 4 ID : 264330514710

Status : Answered

Chosen Option : 3

Q.25 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '6'



Ans 1. 5

2. 2

3. 4

4. 3

Question ID : 26433085388

Option 1 ID : 264330335253

Option 2 ID : 264330335256

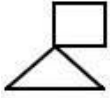
Option 3 ID : 264330335255

Option 4 ID : 264330335254

Status : Answered

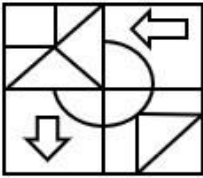
Chosen Option : 1

Q.26 Select the option in which the given figure is embedded (rotation is NOT allowed).

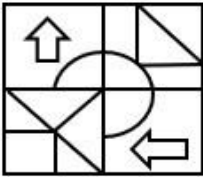


Ans

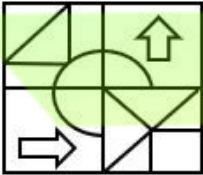
✗ 1.



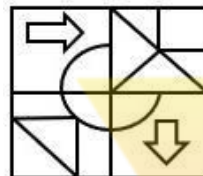
✗ 2.



✗ 3.



✓ 4.



Question ID : 264330129539

Option 1 ID : 264330507522

Option 2 ID : 264330507523

Option 3 ID : 264330507525

Option 4 ID : 264330507524

Status : Answered

Chosen Option : 4

Q.27 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Kindle
2. Knob
3. Kite
4. Knife
5. Kindergarten

Ans ✓ 1. 5, 1, 3, 4, 2

✗ 2. 1, 5, 3, 4, 2

✗ 3. 5, 3, 1, 4, 2

✗ 4. 5, 1, 3, 2, 4

Question ID : 264330129551

Option 1 ID : 264330507573

Option 2 ID : 264330507572

Option 3 ID : 264330507571

Option 4 ID : 264330507570

Status : Answered

Chosen Option : 2

Q.28 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/consonants/vowels in the word).

Wood : Carve :: Clay : _____

- Ans
- 1. Dirt
 - 2. Soil
 - 3. Mud
 - 4. Mould

Question ID : 26433078835
Option 1 ID : 264330309353
Option 2 ID : 264330309355
Option 3 ID : 264330309352
Option 4 ID : 264330309354
Status : Answered
Chosen Option : 3

Q.29 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)

Flock : Many :: Solitary : ?

- Ans
- 1. Lost
 - 2. Alone
 - 3. Happy
 - 4. Last

Question ID : 264330144589
Option 1 ID : 264330566612
Option 2 ID : 264330566611
Option 3 ID : 264330566613
Option 4 ID : 264330566614
Status : Not Answered
Chosen Option : --

Q.30 Which of the following numbers will replace the question mark (?) in the given series?
11, 75, 131, 179, 219, ?

- Ans
- 1. 243
 - 2. 233
 - 3. 251
 - 4. 237

Question ID : 26433091721
Option 1 ID : 264330360251
Option 2 ID : 264330360249
Option 3 ID : 264330360250
Option 4 ID : 264330360252
Status : Answered
Chosen Option : 3

Q.31 Which two signs should be interchanged to make the given equation correct?
 $167 + 85 - 5 \times 4 \div 36 = 199$

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

Question ID : 264330129532
Option 1 ID : 264330507495
Option 2 ID : 264330507494
Option 3 ID : 264330507496
Option 4 ID : 264330507497
Status : Answered
Chosen Option : 2

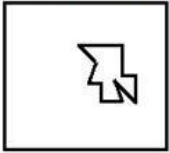
Q.32 Select the number from among the given options that can replace the question mark (?) in the following series.
4, 17, 39, 69, 117, 181, ?, 387

- Ans
- 1. 277
 - 2. 272
 - 3. 222
 - 4. 227

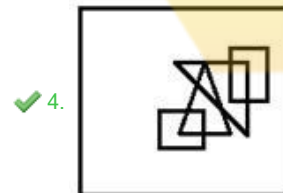
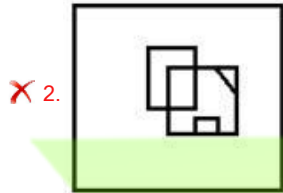
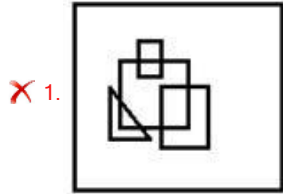
Question ID : 26433079007
Option 1 ID : 264330310034
Option 2 ID : 264330310033
Option 3 ID : 264330310035
Option 4 ID : 264330310032
Status : Not Answered
Chosen Option : --

EAD GROUP

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



Ans



Question ID : 26433068179

Option 1 ID : 264330267229

Option 2 ID : 264330267231

Option 3 ID : 264330267228

Option 4 ID : 264330267230

Status : Answered

Chosen Option : 4

Q.34 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

_A_D_ADAA_AAD_A

Ans ✗ 1. DADAA

✓ 2. DAADA

✗ 3. ADAAD

✗ 4. ADDAD

Question ID : 264330144617

Option 1 ID : 264330566724

Option 2 ID : 264330566726

Option 3 ID : 264330566725

Option 4 ID : 264330566723

Status : Answered

Chosen Option : 4

Q.35 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(4, 13, 5)
(2, 13, 9)

- Ans
- 1. (5, 17, 9)
 - 2. (5, 91, 9)
 - 3. (5, 71, 9)
 - 4. (5, 19, 9)

Question ID : 26433082880
Option 1 ID : 264330325354
Option 2 ID : 264330325353
Option 3 ID : 264330325355
Option 4 ID : 264330325356
Status : Not Answered

Chosen Option : --

Q.36 Which of the following numbers will replace the question marks (?) in the given series?
4, 17, 34, 53, ?, 105, 136, ?

- Ans
- 1. 84, 190
 - 2. 76, 173
 - 3. 78, 177
 - 4. 79, 184

Question ID : 26433096010
Option 1 ID : 264330376809
Option 2 ID : 264330376810
Option 3 ID : 264330376812
Option 4 ID : 264330376811
Status : Answered

Chosen Option : 2

Q.37 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Opaque
2. Omission
3. Once
4. Onward
5. Omnipotence

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

Question ID : 264330129554
Option 1 ID : 264330507584
Option 2 ID : 264330507585
Option 3 ID : 264330507583
Option 4 ID : 264330507582
Status : Answered

Chosen Option : 4

Q.38 In a certain code language, 'SMOKE ' is coded as 25 and 'BROWSER' is coded as 49. How will 'ADULTHOOD' be coded in that language?

- Ans
- 1. 100
 - 2. 81
 - 3. 64
 - 4. 78

Question ID : 264330133207
Option 1 ID : 264330521877
Option 2 ID : 264330521875
Option 3 ID : 264330521878
Option 4 ID : 264330521876
Status : Not Answered
Chosen Option : --

Q.39 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)

Peasant : Cottage :: Monk : ?

- Ans
- 1. Religious
 - 2. Monastery
 - 3. Nun
 - 4. Palace

Question ID : 264330144529
Option 1 ID : 264330566373
Option 2 ID : 264330566372
Option 3 ID : 264330566371
Option 4 ID : 264330566374
Status : Answered
Chosen Option : 2

Q.40 If '+' means '-', '-' means 'x', 'x' means '+', '+' means '+', then what will be the correct answer of the following relation?
 $(6 - 20 + 24) \times 8 + 6 = ?$

- Ans
- 1. 15
 - 2. 17
 - 3. 12
 - 4. 16

Question ID : 264330130216
Option 1 ID : 264330509976
Option 2 ID : 264330509978
Option 3 ID : 264330509975
Option 4 ID : 264330509977
Status : Answered
Chosen Option : 3

Q.41 Six friends are sitting in a circle. All of them are facing the centre. Palak is an immediate neighbour of Kumud. Jhalak sits third to the left of Mehak. Rahat sits fourth to the right of Jhalak. Kumud sits second to the right of Chahak.

Who sits to the immediate left of Mehak?

- Ans 1. Palak
 2. Rahat
 3. Chahak
 4. Kumud

Question ID : 264330144637
Option 1 ID : 264330566806
Option 2 ID : 264330566803
Option 3 ID : 264330566804
Option 4 ID : 264330566805
Status : Not Answered
Chosen Option : --

Q.42 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.)
Poultry : Turkey

- Ans 1. Apple : Banana
 2. Chicken : Meat
 3. Spinach : Green
 4. Vegetable : Spinach

Question ID : 264330131985
Option 1 ID : 264330517038
Option 2 ID : 264330517036
Option 3 ID : 264330517037
Option 4 ID : 264330517035
Status : Answered
Chosen Option : 2

Q.43 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)

Idea : Notion :: Vacant : ?

- Ans 1. Empty
 2. Squander
 3. Full
 4. Enriched

Question ID : 264330144536
Option 1 ID : 264330566400
Option 2 ID : 264330566399
Option 3 ID : 264330566402
Option 4 ID : 264330566401
Status : Answered
Chosen Option : 4

Q.44 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?

7 : 18 :: ? : 30 :: 10 : 24

- Ans
- 1. 10
 - 2. 28
 - 3. 13
 - 4. 18

Question ID : 264330144455
Option 1 ID : 264330566076
Option 2 ID : 264330566077
Option 3 ID : 264330566078
Option 4 ID : 264330566075
Status : Answered
Chosen Option : 3

Q.45 In a certain code language, 'BORDER' is coded as ESUHHV and 'GLOBAL' is coded as JPRFDP. How will 'LATEST' be coded in that language?

- Ans
- 1. OEWIVX
 - 2. OEXJWY
 - 3. PEWIUW
 - 4. PEWJVX

Question ID : 264330133210
Option 1 ID : 264330521888
Option 2 ID : 264330521887
Option 3 ID : 264330521889
Option 4 ID : 264330521890
Status : Answered
Chosen Option : 1

Q.46 How many triangles are there in the given figure?



- Ans
- 1. 23
 - 2. 24
 - 3. 25
 - 4. 27

Question ID : 26433068403
Option 1 ID : 264330268127
Option 2 ID : 264330268125
Option 3 ID : 264330268124
Option 4 ID : 264330268126
Status : Not Answered
Chosen Option : --

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



Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Question ID : 26433074804

Option 1 ID : 264330293305

Option 2 ID : 264330293304

Option 3 ID : 264330293307

Option 4 ID : 264330293306

Status : Answered

Chosen Option : 1

Q.48 In a certain code language, 'RIGHT' is coded as '87', and 'LEFT' is coded as '59'. How will 'CENTRE' be coded in that language?

- ✗ 1. 90
- ✗ 2. 110
- ✓ 3. 101
- ✗ 4. 28

Question ID : 264330144597

Option 1 ID : 264330566645

Option 2 ID : 264330566646

Option 3 ID : 264330566644

Option 4 ID : 264330566643

Status : Not Answered

Chosen Option : --

Q.49 Arrange the following words in a logical and meaningful order.

1. millimetre
2. inch
3. centimetre
4. foot
5. metre

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

2. 3, 2, 4, 1, 5

3. 1, 4, 5, 2, 3

4. 3, 1, 2, 4, 5

Question ID : 26433076674

Option 1 ID : 264330300760

Option 2 ID : 264330300763

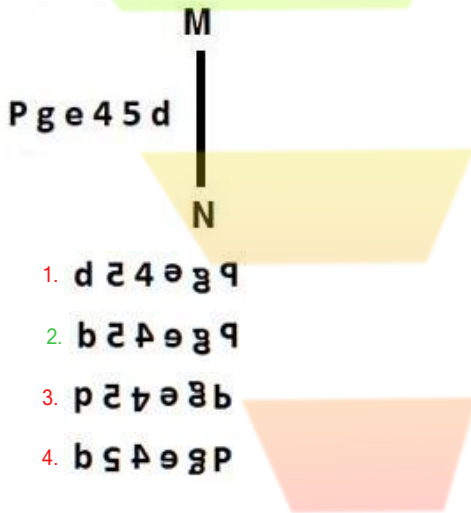
Option 3 ID : 264330300761

Option 4 ID : 264330300762

Status : Answered

Chosen Option : 1

Q.50 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans 1. d 2 4 e g p

2. p g e 4 2 p

3. p g e 4 2 p

4. b s e 4 p

Question ID : 26433056968

Option 1 ID : 264330222856

Option 2 ID : 264330222857

Option 3 ID : 264330222859

Option 4 ID : 264330222858

Status : Answered

Chosen Option : 2

Section : General Awareness

Q.1 What is World Wide Web?

Ans 1. A collection of interconnected computer networks.

2. A web browser used for accessing online content.

3. A collection of websites and web pages accessible over the internet.

4. A software application for browsing the internet.

Question ID : 264330168580

Option 1 ID : 264330661131

Option 2 ID : 264330661134

Option 3 ID : 264330661133

Option 4 ID : 264330661132

Status : Not Answered

Chosen Option : --

Q.2 On which date did the members of the Constituent Assembly append their signatures to the Constitution of India?

- Ans
- 1. 23 January 1950
 - 2. 24 January 1950
 - 3. 25 January 1950
 - 4. 22 January 1950

Question ID : 26433064702
Option 1 ID : 264330253401
Option 2 ID : 264330253402
Option 3 ID : 264330253403
Option 4 ID : 264330253400
Status : Not Answered
Chosen Option : --

Q.3 To which of the following gharanas of music does tabla maestro Zakir Hussain belong?

- Ans
- 1. Farrukhabad
 - 2. Delhi
 - 3. Lucknow
 - 4. Punjab

Question ID : 26433066683
Option 1 ID : 264330261259
Option 2 ID : 264330261258
Option 3 ID : 264330261257
Option 4 ID : 264330261256
Status : Not Answered
Chosen Option : --

Q.4 Match the hills in column A with their locations/regions in column B.

Column A (Hills) Column B (Location/regions)

- | | |
|-------------------|----------------------|
| 1. Shevaroy Hills | a. Eastern Ghats |
| 2. Doddabetta | b. Western Ghats |
| 3. Khasi Hills | c. Meghalaya Plateau |

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

Question ID : 264330157079
Option 1 ID : 264330615688
Option 2 ID : 264330615689
Option 3 ID : 264330615687
Option 4 ID : 264330615690
Status : Not Answered
Chosen Option : --

Q.5 Who shall have the duty to give advice to the Government of India upon legal matters from time to time as per Article 76 of the Constitution of India?

- Ans
- 1. Attorney General
 - 2. Chief Justice of India
 - 3. Advocate General
 - 4. Prime Minister

Question ID : 264330130686
Option 1 ID : 264330511858
Option 2 ID : 264330511856
Option 3 ID : 264330511857
Option 4 ID : 264330511855
Status : Not Answered
Chosen Option : --

Q.6 The Reserve Bank of India introduced a comprehensive regulatory framework for NBFC-MFI on _____.

- Ans
- 1. 8 December 2013
 - 2. 5 December 2012
 - 3. 10 December 2015
 - 4. 2 December 2011

Question ID : 264330144415
Option 1 ID : 264330565917
Option 2 ID : 264330565916
Option 3 ID : 264330565918
Option 4 ID : 264330565915
Status : Not Answered
Chosen Option : --

Q.7 On 7th February 2023, Ministry of Social Justice & Empowerment, GOI, set up 12 Garima Greh Shelter Home for _____ on pilot basis in nine States.

- Ans
- 1. transgender persons
 - 2. homeless women
 - 3. flood affected persons
 - 4. senior citizens

Question ID : 264330132613
Option 1 ID : 264330519547
Option 2 ID : 264330519549
Option 3 ID : 264330519550
Option 4 ID : 264330519548
Status : Not Answered
Chosen Option : --

Q.8 The Poona Pact was concerned with providing representation to which of the following classes or communities?

- Ans
- 1. Sikh
 - 2. Muslim
 - 3. Depressed class
 - 4. Anglo-Indian

Question ID : 264330109036
Option 1 ID : 264330428421
Option 2 ID : 264330428423
Option 3 ID : 264330428424
Option 4 ID : 264330428422
Status : Not Answered
Chosen Option : --

Q.9 Which of the following is the total value of Net National Product at the consumer point?

- Ans
- 1. Net national product at market price
 - 2. Gross national product at factor cost
 - 3. Net national product at factor cost
 - 4. Gross national product at market price

Question ID : 26433065435
Option 1 ID : 264330256302
Option 2 ID : 264330256301
Option 3 ID : 264330256303
Option 4 ID : 264330256300
Status : Not Answered
Chosen Option : --

Q.10 The Constitution (Scheduled Tribes) Order (Third Amendment) Bill, 2022, which has been passed by the Lok Sabha seeks to amend the Constitution (Scheduled Tribes) Order, 1950, with respect to its application to which of the following states?

- Ans
- 1. Odisha
 - 2. Himachal Pradesh
 - 3. West Bengal
 - 4. Uttar Pradesh

Question ID : 264330158472
Option 1 ID : 264330621247
Option 2 ID : 264330621249
Option 3 ID : 264330621248
Option 4 ID : 264330621250
Status : Not Answered
Chosen Option : --

Q.11 Which of the following food additives have nutritive value?

- Ans
- 1. Food colours
 - 2. Antioxidants
 - 3. Nutritional supplements
 - 4. Preservatives

Question ID : 264330113347
Option 1 ID : 264330445473
Option 2 ID : 264330445474
Option 3 ID : 264330445476
Option 4 ID : 264330445475
Status : Not Answered
Chosen Option : --

Q.12 In which year was the climate classification first published in Russian as 'thermal zones of the earth'?

- Ans
- 1. 1991
 - 2. 1890
 - 3. 1884
 - 4. 1895

Question ID : 264330131015
Option 1 ID : 264330513174
Option 2 ID : 264330513172
Option 3 ID : 264330513171
Option 4 ID : 264330513173
Status : Not Answered
Chosen Option : --

Q.13 The POSHAN Abhiyaan launched in 2018 focuses on the nutritional status of adolescent girls, pregnant women, lactating mothers and children of which age group?

- Ans
- 1. 0-6 years
 - 2. 1-3 years
 - 3. 3-6 years
 - 4. 2-5 years

Question ID : 264330113785
Option 1 ID : 264330447226
Option 2 ID : 264330447227
Option 3 ID : 264330447225
Option 4 ID : 264330447228
Status : Not Answered
Chosen Option : --

Q.14 Which of the following is an example of the Indo-Saracenic style of architecture built in the year 1912 for the 24th ruler of the Wodeyar dynasty?

- Ans
- 1. Mysore Palace
 - 2. Lalgarh Palace
 - 3. Ujjayanta Palace
 - 4. Chowmahalla Palace

Question ID : 26433072656
Option 1 ID : 264330284884
Option 2 ID : 264330284886
Option 3 ID : 264330284887
Option 4 ID : 264330284885
Status : Not Answered
Chosen Option : --

Q.15 In organic chemistry, which qualitative method is used for testing an unsaturated carbon-carbon bond, such as an alkene or alkyne, but NOT for an aromatic carbon-carbon bond?

- Ans
- 1. Iodoform test
 - 2. Phthalein dye test
 - 3. Lucas test
 - 4. Bayer's test

Question ID : 264330114590
Option 1 ID : 264330450446
Option 2 ID : 264330450445
Option 3 ID : 264330450447
Option 4 ID : 264330450448
Status : Not Answered
Chosen Option : --

Q.16 How many pairs of gill slits are present in the members of class cyclostomata of phylum vertebrata?

- Ans
- 1. 5-13
 - 2. 7-18
 - 3. 4-11
 - 4. 6-15

Question ID : 264330113320
Option 1 ID : 264330445366
Option 2 ID : 264330445368
Option 3 ID : 264330445365
Option 4 ID : 264330445367
Status : Not Answered
Chosen Option : --

Q.17 Which of the following statements is INCORRECT with respect to Start-Up India Seed Fund Scheme?

- Ans
- 1. ₹845 crore will be provided as seed fund.
 - 2. It was launched in 2021.
 - 3. It is being implemented by the Ministry of Commerce and Industry.
 - 4. The number of estimated beneficiaries are 3,600 start-ups through 300 incubators.

Question ID : 264330156923
Option 1 ID : 264330615069
Option 2 ID : 264330615067
Option 3 ID : 264330615068
Option 4 ID : 264330615070
Status : Not Answered
Chosen Option : --

Q.18 Which organic compound is a toxic aromatic amine with the formula C_6H_7N that is mainly used to make a wide variety of products such as polyurethane foams, agricultural chemicals and synthetic dyes?

- Ans
- 1. Acridine
 - 2. Quinoline
 - 3. Naphthalene
 - 4. Aniline

Question ID : 264330141682
Option 1 ID : 264330555050
Option 2 ID : 264330555049
Option 3 ID : 264330555048
Option 4 ID : 264330555047
Status : Not Answered
Chosen Option : --

Q.19 Who among the following members participate in the election of the Vice President of India?

- Ans
- 1. Elected and nominated members of the Parliament
 - 2. Legislative members of all States and Union Territories
 - 3. Elected members of the Parliament
 - 4. Legislative assembly members of all States

Question ID : 264330120159
Option 1 ID : 264330470894
Option 2 ID : 264330470892
Option 3 ID : 264330470893
Option 4 ID : 264330470891
Status : Not Answered
Chosen Option : --

Q.20 Which of the following states did NOT experience the success of the green revolution in the first phase between years mid-60s to mid-70s?

- Ans
- 1. Assam
 - 2. Punjab
 - 3. Andhra Pradesh
 - 4. Tamil Nadu

Question ID : 264330144390
Option 1 ID : 264330565817
Option 2 ID : 264330565815
Option 3 ID : 264330565816
Option 4 ID : 264330565818
Status : Not Answered
Chosen Option : --

Q.21 Before the foundation of the Vijayanagar empire, Harihar and Bukka were the nobles of which of the following dynasties?

- Ans
- 1. Kakatiya of Warangal
 - 2. Hoysala of Madurai
 - 3. Chalukya of Badami
 - 4. Chera of Kerala

Question ID : 26433089197
Option 1 ID : 264330350307
Option 2 ID : 264330350306
Option 3 ID : 264330350305
Option 4 ID : 264330350308
Status : Not Answered
Chosen Option : --

Q.22 According to the Census of India 2011, which of the following states has the highest Hindu population percentage of total population?

- Ans
- 1. Himachal Pradesh
 - 2. Uttar Pradesh
 - 3. Haryana
 - 4. Madhya Pradesh

Question ID : 264330157088
Option 1 ID : 264330615723
Option 2 ID : 264330615724
Option 3 ID : 264330615725
Option 4 ID : 264330615726
Status : Not Answered
Chosen Option : --

Q.23 How do web browsers use Hyperlinks?

- Ans
- 1. To store passwords securely
 - 2. To analyse internet traffic patterns
 - 3. To navigate between web pages and resources
 - 4. To display advertisements on websites

Question ID : 264330168578
Option 1 ID : 264330661123
Option 2 ID : 264330661126
Option 3 ID : 264330661124
Option 4 ID : 264330661125
Status : Not Answered
Chosen Option : --

Q.24 'Serve to Win' is the autobiography of _____.

- Ans
- 1. Novak Djokovic
 - 2. Rafael Nadal
 - 3. Serena Williams
 - 4. Pullela Gopichand

Question ID : 264330110334
Option 1 ID : 264330433616
Option 2 ID : 264330433614
Option 3 ID : 264330433615
Option 4 ID : 264330433613
Status : Not Answered
Chosen Option : --

Q.25 Where was the 2021 Men's FIH Hockey Junior World Cup held?

- Ans
- 1. Kolkata
 - 2. Indore
 - 3. Ranchi
 - 4. Bhubaneswar

Question ID : 264330119264
Option 1 ID : 264330467343
Option 2 ID : 264330467346
Option 3 ID : 264330467344
Option 4 ID : 264330467345
Status : Not Answered
Chosen Option : --

Q.26 What are the basic components of Portland cement?

- Ans
- 1. $ZnSO_4$, $CaCl_2$, $Al_2(SO_4)_3$, $CuSO_4$
 - 2. $CaOCl_3$, $MgSO_4$, $Al_2(SO_4)_3$, $ZnSO_4$
 - 3. $CaCl_2$, $MgCl_2$, $Al_2(SO_4)_3$, $ZnSO_4$
 - 4. CaO , SiO_2 , Al_2O_3 , Fe_2O_3

Question ID : 264330118020
Option 1 ID : 264330463898
Option 2 ID : 264330463897
Option 3 ID : 264330463896
Option 4 ID : 264330463895
Status : Not Answered
Chosen Option : --

Q.27 Which country is associated with the 'Navam Perahera' festival?

- Ans
- 1. Bangladesh
 - 2. Nepal
 - 3. Sri Lanka
 - 4. Bhutan

Question ID : 264330113304
Option 1 ID : 264330445304
Option 2 ID : 264330445303
Option 3 ID : 264330445301
Option 4 ID : 264330445302
Status : Not Answered
Chosen Option : --

Q.28 Which of the following factors is responsible for moderate to heavy rain in low-lying areas and heavy snow to mountainous areas of the Indian Subcontinent during winters?

- Ans
- 1. South west monsoon
 - 2. South east monsoon
 - 3. Conventional rain
 - 4. Western disturbances

Question ID : 264330131812
Option 1 ID : 264330516347
Option 2 ID : 264330516350
Option 3 ID : 264330516349
Option 4 ID : 264330516348
Status : Not Answered
Chosen Option : --

Q.29 Swami Vivekanand's organisation _____ stressed the ideal of salvation through social service and selfless action.

- Ans
- 1. Sadharan Brahmo Samaj
 - 2. Ramakrishna Mission
 - 3. Bahishkrit Hitakarini Sabha
 - 4. Vedic Samaj

Question ID : 264330111418
Option 1 ID : 264330437760
Option 2 ID : 264330437759
Option 3 ID : 264330437758
Option 4 ID : 264330437757
Status : Not Answered
Chosen Option : --

Q.30 Which treaty led to the surrender of nearly half of the territory of Mysore State to the East India Company?

- Ans
- 1. Seringapatam
 - 2. Dindigul
 - 3. Mangalore
 - 4. Madras

Question ID : 264330112163
Option 1 ID : 264330440739
Option 2 ID : 264330440740
Option 3 ID : 264330440737
Option 4 ID : 264330440738
Status : Not Answered
Chosen Option : --

Q.31 Ashtangika Marga, which guides us in eliminating human misery is concerned with which religion?

- Ans
- 1. Jainism
 - 2. Buddhism
 - 3. Saivism
 - 4. Vaishnavism

Question ID : 264330112126
Option 1 ID : 264330440590
Option 2 ID : 264330440591
Option 3 ID : 264330440589
Option 4 ID : 264330440592
Status : Not Answered
Chosen Option : --

Q.32 According to Koeppen's Scheme, which type of climate is denoted by 'BShw' in India?

- Ans
- 1. Hot Desert
 - 2. Polar type
 - 3. Monsoon with dry summer
 - 4. Semi-arid steppe climate

Question ID : 264330132722
Option 1 ID : 264330519985
Option 2 ID : 264330519986
Option 3 ID : 264330519983
Option 4 ID : 264330519984
Status : Not Answered
Chosen Option : --

Q.33 Sangeet Natak Akademi, the National Academy of Music, Dance and Drama in the meeting of its General Council held in November 2022 in New Delhi awarded the Ustad Bismillah Khan Yuva Puraskar 2021 in the field of Hindustani vocal music to _____.

- Ans 1. Janki Mithaiwala
 2. Pavitra Krishna Bhat
 3. Rudra Shankar Mishra
 4. Kalamandalam Adithyan

Question ID : 264330137256
Option 1 ID : 264330537651
Option 2 ID : 264330537652
Option 3 ID : 264330537653
Option 4 ID : 264330537654
Status : Not Answered
Chosen Option : --

Q.34 During which census enumeration did the Registrar General of India provide for the first time three codes for enumeration i.e., Male-1, Female-2 and Others-3?

- Ans 1. 2011
 2. 1991
 3. 1981
 4. 2001

Question ID : 264330111345
Option 1 ID : 264330437466
Option 2 ID : 264330437467
Option 3 ID : 264330437468
Option 4 ID : 264330437465
Status : Not Answered
Chosen Option : --

Q.35 Ustad Vilayat Khan was related to the musical instrument called _____.

- Ans 1. tabla
 2. sarod
 3. sarangi
 4. sitar

Question ID : 26433082112
Option 1 ID : 264330322282
Option 2 ID : 264330322281
Option 3 ID : 264330322283
Option 4 ID : 264330322284
Status : Not Answered
Chosen Option : --

Q.36 The steppe biome is a dry, grassland habitat found on all continents EXCEPT, Australia and Antarctica. In which climate does it mainly occur?

- Ans
- 1. Alpine climates
 - 2. Continental climates
 - 3. Tropical climates
 - 4. Temperate climates

Question ID : 264330113787
Option 1 ID : 264330447235
Option 2 ID : 264330447236
Option 3 ID : 264330447234
Option 4 ID : 264330447233
Status : Not Answered
Chosen Option : --

Q.37 Up to which financial year has the Start-Ups Intellectual Property Protection Scheme, launched in 2016 by the Ministry of Commerce and Industry been extended?

- Ans
- 1. FY 2024
 - 2. FY 2026
 - 3. FY 2023
 - 4. FY 2027

Question ID : 264330156912
Option 1 ID : 264330615023
Option 2 ID : 264330615024
Option 3 ID : 264330615025
Option 4 ID : 264330615026
Status : Not Answered
Chosen Option : --

Q.38 In which of the following dances the basic dance formation is that of a circle that moves counter-clockwise, where dancers form concentric circles that move in opposite directions?

- Ans
- 1. Tamasha
 - 2. Ras lila
 - 3. Suggi
 - 4. Garba

Question ID : 264330130866
Option 1 ID : 264330512576
Option 2 ID : 264330512577
Option 3 ID : 264330512578
Option 4 ID : 264330512575
Status : Not Answered
Chosen Option : --

Q.39 The headquarters of National Aluminium Company Limited (NALCO) is located at _____.

- Ans
- 1. Chennai
 - 2. Jaipur
 - 3. Bhubaneswar
 - 4. Bhopal

Question ID : 264330113273
Option 1 ID : 264330445180
Option 2 ID : 264330445179
Option 3 ID : 264330445178
Option 4 ID : 264330445177
Status : Not Answered
Chosen Option : --

Q.40 Which of the following options represents artificial ecosystems?

- Ans
- 1. Zoo, national park, forest and pond ecosystem
 - 2. Crop ecosystem, forest and grassland ecosystem
 - 3. Fish farm, forest and ocean ecosystem
 - 4. Fish farm, zoo, green house and hydroponics

Question ID : 264330112832
Option 1 ID : 264330443416
Option 2 ID : 264330443413
Option 3 ID : 264330443415
Option 4 ID : 264330443414
Status : Not Answered
Chosen Option : --

Q.41 Match the columns.

State	Name of primitive form of cultivation
1. Andhra Pradesh	a. Podu
2. Jharkhand	b. Koman
3. Odisha	c. Kuruwa

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

Question ID : 264330132713
Option 1 ID : 264330519947
Option 2 ID : 264330519949
Option 3 ID : 264330519948
Option 4 ID : 264330519950
Status : Not Answered
Chosen Option : --

Q.42 According to the Census of India 2011, what is the literacy rate of the state of Bihar?

- Ans
- 1. 65.7%
 - 2. 61.8%
 - 3. 63.6%
 - 4. 62.4%

Question ID : 264330119817
Option 1 ID : 264330469546
Option 2 ID : 264330469545
Option 3 ID : 264330469543
Option 4 ID : 264330469544
Status : Not Answered
Chosen Option : --

Q.43 In terms of trophic dynamics, wolf, Komodo dragon and crocodile are defined as:-

- Ans 1. apex predators
 2. detritivores
 3. herbivores
 4. decomposers

Question ID : 264330110084
Option 1 ID : 264330432613
Option 2 ID : 264330432614
Option 3 ID : 264330432615
Option 4 ID : 264330432616
Status : Not Answered
Chosen Option : --

Q.44 Which of the following is NOT a transition metal?

- Ans 1. Cu
 2. Mg
 3. Ni
 4. Co

Question ID : 264330131778
Option 1 ID : 264330516214
Option 2 ID : 264330516213
Option 3 ID : 264330516212
Option 4 ID : 264330516211
Status : Not Answered
Chosen Option : --

Q.45 Vaijayantimala, a famous Indian actress, was also an exponent of which of the following dance forms?

- Ans 1. Kuchipudi
 2. Bharatanatyam
 3. Odissi
 4. Kathak

Question ID : 26433064805
Option 1 ID : 264330253813
Option 2 ID : 264330253812
Option 3 ID : 264330253814
Option 4 ID : 264330253815
Status : Not Answered
Chosen Option : --

Q.46 Which semi-essential amino acid plays an important role in your body's immune function, digestion, sleep and sexual function?

- Ans 1. Histidine
 2. Valine
 3. Leucine
 4. Arginine

Question ID : 264330110071
Option 1 ID : 264330432564
Option 2 ID : 264330432562
Option 3 ID : 264330432563
Option 4 ID : 264330432561
Status : Not Answered
Chosen Option : --

Q.47 The Indus system is one of the largest river basins in the world, covering a total length of how many kilometres in India?

- Ans
- 1. 1,114 km
 - 2. 3,800 km
 - 3. 2,890 km
 - 4. 2,580 km

Question ID : 26433086904
Option 1 ID : 264330341257
Option 2 ID : 264330341260
Option 3 ID : 264330341259
Option 4 ID : 264330341258
Status : Not Answered
Chosen Option : --

Q.48 Who among the following launched the Ombudsperson App for the Mahatma Gandhi National Rural Employment Guarantee Act in February 2022?

- Ans
- 1. Piyush Goyal
 - 2. Parshottam Rupala
 - 3. Giriraj Singh
 - 4. Sarbananda Sonowal

Question ID : 26433090634
Option 1 ID : 264330355959
Option 2 ID : 264330355957
Option 3 ID : 264330355960
Option 4 ID : 264330355958
Status : Not Answered
Chosen Option : --

Q.49 Who among the following people is exempted from the applicability of Fundamental Duties?

- Ans
- 1. Foreigners who visit India
 - 2. Those below 21 years
 - 3. All government officials
 - 4. Armed personnel

Question ID : 264330130443
Option 1 ID : 264330510884
Option 2 ID : 264330510883
Option 3 ID : 264330510885
Option 4 ID : 264330510886
Status : Not Answered
Chosen Option : --

Q.50 Directive Principles of State Policy is taken from which country's constitution?

- Ans
- 1. The US
 - 2. Ireland
 - 3. The UK
 - 4. France

Question ID : 264330111530
Option 1 ID : 264330438207
Option 2 ID : 264330438205
Option 3 ID : 264330438208
Option 4 ID : 264330438206
Status : Not Answered
Chosen Option : --

Q.1 Select the INCORRECT statement for an overhead transmission line supported by supports at equal levels.

- Ans
- 1. Sag is inversely proportional to the height of the supporting tower.
 - 2. Sag is inversely proportional to the tension of the conductor.
 - 3. Sag is directly proportional to the weight per unit length of the conductor.
 - 4. Sag is directly proportional to the square of the length of the conductor span.

Question ID : 264330158116
Option 1 ID : 264330619826
Option 2 ID : 264330619824
Option 3 ID : 264330619823
Option 4 ID : 264330619825
Status : Answered
Chosen Option : 3

Q.2 According to IS (Indian Standard) specification 1180-1964 for outdoor type distribution transformer, the tapings shall be provided on hv side in _____.

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

Question ID : 264330100797
Option 1 ID : 264330395736
Option 2 ID : 264330395735
Option 3 ID : 264330395733
Option 4 ID : 264330395734
Status : Answered
Chosen Option : 3

Q.3 Which of the following statements is true regarding the voltage drop due to armature reaction for unity power factors in an alternator?

- Ans
- 1. The voltage drop is maximum for unity power factors.
 - 2. The voltage drop is minimum for unity power factors.
 - 3. The voltage drop is zero for unity power factors.
 - 4. The voltage drop remains constant irrespective of the power factor.

Question ID : 264330164897
Option 1 ID : 264330646715
Option 2 ID : 264330646716
Option 3 ID : 264330646717
Option 4 ID : 264330646718
Status : Answered
Chosen Option : 2

Q.4 The armature resistance of a 220 volt DC machine is 0.5 ohm. What is the value of the back EMF when the machine functions as a motor if the full load armature current is 25 amps?

- Ans
- 1. 209 V
 - 2. 207.5 V
 - 3. 207 V
 - 4. 210 V

Question ID : 264330162902
Option 1 ID : 264330638923
Option 2 ID : 264330638924
Option 3 ID : 264330638925
Option 4 ID : 264330638926
Status : Answered
Chosen Option : 2

Q.5 Which of the given statements is NOT true about the double layer winding in the electrical machine?

- Ans
- 1. Easier to manufacture and lower cost of the coils
 - 2. Improved emf waveform will be there.
 - 3. Leakage reactance will be more as more winding is there.
 - 4. Fractional slot winding can be possible.

Question ID : 264330164902
Option 1 ID : 264330646736
Option 2 ID : 264330646735
Option 3 ID : 264330646738
Option 4 ID : 264330646737
Status : Answered
Chosen Option : 1

Q.6 In Electromagnetism, the field pattern of a magnetic field inside the toroid is _____.

- Ans
- 1. hyperbolic
 - 2. parabolic
 - 3. uniform
 - 4. non-uniform

Question ID : 264330160489
Option 1 ID : 264330629288
Option 2 ID : 264330629287
Option 3 ID : 264330629289
Option 4 ID : 264330629290
Status : Answered
Chosen Option : 2

Q.7 Arrange the following in the increasing order of energy released during their processing as

a biomass.

- A) Bagasse
- B) Municipal solid waste
- C) Wheat and rice straw
- D) Wood pellets

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

Question ID : 264330158064

Option 1 ID : 264330619615

Option 2 ID : 264330619617

Option 3 ID : 264330619618

Option 4 ID : 264330619616

Status : Answered

Chosen Option : 3

Q.8 Find the common base configuration current gain of a transistor, if the common emitter configuration current gain of the transistor is 50.

- Ans
- 1. 1
 - 2. 0.97
 - 3. 0.99
 - 4. 0.98

Question ID : 264330159768

Option 1 ID : 264330626422

Option 2 ID : 264330626421

Option 3 ID : 264330626420

Option 4 ID : 264330626419

Status : Answered

Chosen Option : 4

Q.9

Find the input capacitance for a common source(CS) MOSFET amplifier, when $C_{gs} = 5pF$, $C_{gd} = 3pF$, and $A_v = 3$.

- Ans
- 1. 17 pF
 - 2. 15 pF
 - 3. 10 pF
 - 4. 12 pF

Question ID : 264330159775

Option 1 ID : 264330626450

Option 2 ID : 264330626449

Option 3 ID : 264330626447

Option 4 ID : 264330626448

Status : Answered

Chosen Option : 2

Q.10 What will be the primary current of a 20 kVA, 6600/220 V, 50 Hz step-down ideal transformer?

- Ans
- 1. 1.3 A
 - 2. 0 A
 - 3. 1.515 A
 - 4. 3.03 A

Question ID : 264330163314
Option 1 ID : 264330640557
Option 2 ID : 264330640555
Option 3 ID : 264330640558
Option 4 ID : 264330640556
Status : Answered
Chosen Option : 4

Q.11 What is the purpose of cost estimation?

- Ans
- 1. To allocate human resources
 - 2. To assess project risks
 - 3. To determine project timelines
 - 4. To predict project expenses

Question ID : 264330158154
Option 1 ID : 264330619976
Option 2 ID : 264330619978
Option 3 ID : 264330619975
Option 4 ID : 264330619977
Status : Answered
Chosen Option : 4

Q.12 In a capacitor start induction run motor, when motor reaches to _____ of full speed, the centrifugal switch S opens and cuts out capacitor from supply.

- Ans
- 1. 25%
 - 2. 75%
 - 3. 100%
 - 4. 50%

Question ID : 26433099590
Option 1 ID : 264330390973
Option 2 ID : 264330390975
Option 3 ID : 264330390976
Option 4 ID : 264330390974
Status : Answered
Chosen Option : 2

Q.13 Three phases (R, Y and B) of a balanced AC circuit with the phase sequence RYB are connected in star. These three voltages are equal in magnitude and displaced from one another by _____ electrical angle.

- Ans 1. 120°
 2. 240°
 3. 90°
 4. 360°

Question ID : 264330159444
Option 1 ID : 264330625136
Option 2 ID : 264330625137
Option 3 ID : 264330625135
Option 4 ID : 264330625138
Status : Answered
Chosen Option : 1

Q.14 A series RLC circuit has the following parameter values: $R = 5 \Omega$, $L = 0.01 \text{ H}$, $C = 100 \mu\text{F}$, Voltage source $(t) = 10 \sin 1000t$. What is the value of quality factor?

- Ans 1. 2
 2. 1
 3. 2.51
 4. 1.11

Question ID : 26433098296
Option 1 ID : 264330385837
Option 2 ID : 264330385838
Option 3 ID : 264330385840
Option 4 ID : 264330385839
Status : Answered
Chosen Option : 1

Q.15 An RLC series circuit has resonance frequency of 170 kHz and quality factor of 25. Find the bandwidth of the circuit.

- Ans 1. 68 kHz
 2. 13.6 kHz
 3. 6.8 kHz
 4. 50 Hz

Question ID : 264330159516
Option 1 ID : 264330625426
Option 2 ID : 264330625425
Option 3 ID : 264330625423
Option 4 ID : 264330625424
Status : Answered
Chosen Option : 3

Q.16 The range of a moving iron ammeter can be extended by using a _____.

- Ans
- 1. shunt connected in series with an ammeter
 - 2. shunt connected in parallel with an ammeter
 - 3. multiplier connected in parallel with an ammeter
 - 4. multiplier connected in series with an ammeter

Question ID : 264330160644
Option 1 ID : 264330629908
Option 2 ID : 264330629907
Option 3 ID : 264330629909
Option 4 ID : 264330629910
Status : Answered
Chosen Option : 2

Q.17 Which of the following is used with the pressure coil to bring the flux produced by the shunt magnet exactly in quadrature with the applied voltage?

- Ans
- 1. Copper shading bands are provided on the U limb
 - 2. Aluminium shading bands are provided on the central limb
 - 3. Aluminium shading bands are provided on the U limb
 - 4. Copper shading bands are provided on the central limb

Question ID : 264330157582
Option 1 ID : 264330617690
Option 2 ID : 264330617687
Option 3 ID : 264330617689
Option 4 ID : 264330617688
Status : Answered
Chosen Option : 4

Q.18 In a shaded-pole induction motor, in the core, when a _____ phase is applied, a/an _____ flux is generated.

- Ans
- 1. single; constant
 - 2. three; constant
 - 3. single; alternating
 - 4. three; alternating

Question ID : 264330164884
Option 1 ID : 264330646664
Option 2 ID : 264330646666
Option 3 ID : 264330646663
Option 4 ID : 264330646665
Status : Answered
Chosen Option : 2

Q.19 The expression for the RMS value of the current of a triangular wave form is:

Ans

1. $\frac{I_{\max}}{2}$

2. $\sqrt{3}I_{\max}$

3. $\frac{I_{\max}}{\sqrt{2}}$

4. $\frac{I_{\max}}{\sqrt{3}}$

Question ID : 26433098303

Option 1 ID : 264330385867

Option 2 ID : 264330385868

Option 3 ID : 264330385866

Option 4 ID : 264330385865

Status : Answered

Chosen Option : 4

Q.20 In a three-phase balanced star connected system, which of the following will hold true? [ϕ is the angle between phase voltage and phase current.]

Ans

1. The angle between line currents and the corresponding line voltages is $30^\circ + \phi$ for leading.

2. The angle between line currents and the corresponding line voltages is $30^\circ - \phi$ for lagging.

3. The angle between line currents and the corresponding line voltages is $30^\circ + \phi$ for lagging.

4. The angle between line currents and the corresponding line voltages are in phase.

Question ID : 26433098299

Option 1 ID : 264330385851

Option 2 ID : 264330385852

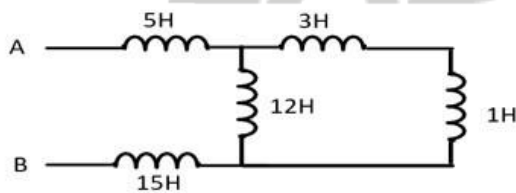
Option 3 ID : 264330385850

Option 4 ID : 264330385849

Status : Answered

Chosen Option : 2

Q.21 Find the value of equivalent inductance across terminal AB in the following circuit.



Ans

1. 36H

2. 26H

3. 23H

4. 50H

Question ID : 26433096410

Option 1 ID : 264330378379

Option 2 ID : 264330378377

Option 3 ID : 264330378378

Option 4 ID : 264330378380

Status : Answered

Chosen Option : 3

Q.22 Which of the following defines the use of a thermostat in an electric kettle?

- Ans
- 1. It is used to compare the ambient temperature with the temperature inside the kettle.
 - 2. It is used to maintain the temperature inside the kettle.
 - 3. It is used to stop the flow of electricity through the heating element once the appropriate temperature is reached.
 - 4. It is used to reduce the temperature in case of overheating of the heating element.

Question ID : 26433010092
Option 1 ID : 264330392942
Option 2 ID : 264330392941
Option 3 ID : 264330392943
Option 4 ID : 264330392944
Status : Answered
Chosen Option : 3

Q.23 In electrical applications, electric geyser coils are made up of a _____.

- Ans
- 1. high-resistance metal
 - 2. low-inductance metal
 - 3. low-resistance metal
 - 4. high-inductance metal

Question ID : 264330157599
Option 1 ID : 264330617757
Option 2 ID : 264330617756
Option 3 ID : 264330617755
Option 4 ID : 264330617758
Status : Answered
Chosen Option : 1

Q.24 Which option is INCORRECT in relation to the applications of synchronous motors?

- Ans
- 1. They are used in power house and substation in parallel to the bus bar to improve the power factors.
 - 2. They are used to regulate the voltage at the end of transmission line.
 - 3. They are used in factories having a large number of induction motors operated at leading power factor.
 - 4. They are used in large loads where constant speed is required.

Question ID : 264330164905
Option 1 ID : 264330646747
Option 2 ID : 264330646748
Option 3 ID : 264330646749
Option 4 ID : 264330646750
Status : Answered
Chosen Option : 3

Q.25 The compensation for light load is done by using a metallic strip provided between the _____.

- Ans
- 1. central limb of shunt magnet and disc
 - 2. permanent magnet and disc
 - 3. central limb of series magnet and disc
 - 4. disc and the pointer

Question ID : 264330100761
Option 1 ID : 264330395589
Option 2 ID : 264330395592
Option 3 ID : 264330395590
Option 4 ID : 264330395591
Status : Answered
Chosen Option : 2

Q.26 Which of the following statements is/are true in regard to auto transformers?
 (i) A commonly known auto transformer, variac is used in laboratories and science labs.
 (ii) An auto transformer should have small transformation when used in transmission and distribution application.
 (iii) An auto transformer is used to raise the voltage in an AC feeder and is known as booster.

- Ans 1. (i), (ii) and (iii)
 2. (i) and (iii)
 3. Only (iii)
 4. Only (i)

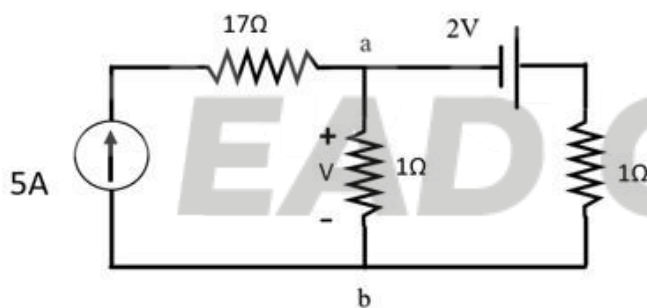
Question ID : 264330100789
 Option 1 ID : 264330395704
 Option 2 ID : 264330395702
 Option 3 ID : 264330395703
 Option 4 ID : 264330395701
 Status : Answered
 Chosen Option : 4

Q.27 Which of the following components are connected to the gearbox and generator box, respectively, in a horizontal-type wind turbine?

- Ans 1. Low speed shaft and accelerometer
 2. Low speed shaft and high speed shaft
 3. High speed shaft and accelerometer
 4. High speed shaft and low speed shaft

Question ID : 26433099577
 Option 1 ID : 264330390921
 Option 2 ID : 264330390923
 Option 3 ID : 264330390922
 Option 4 ID : 264330390924
 Status : Answered
 Chosen Option : 1

Q.28 Find the value of V in the circuit shown below.



- Ans 1. 1.5V
 2. 3V
 3. -1.5V
 4. 0V

Question ID : 26433096478
 Option 1 ID : 264330378650
 Option 2 ID : 264330378652
 Option 3 ID : 264330378649
 Option 4 ID : 264330378651
 Status : Answered
 Chosen Option : 4

Q.29 Which of the following constitutes a valid reason for rejecting the lowest bid?

- Ans
- 1. All of the options
 - 2. Bidder has not signed
 - 3. Lack of sufficient opposition
 - 4. Unreasonable compensation is received

Question ID : 264330158174
Option 1 ID : 264330620058
Option 2 ID : 264330620057
Option 3 ID : 264330620055
Option 4 ID : 264330620056
Status : Answered
Chosen Option : 1

Q.30 Which of the following statements are INCORRECT about PMMC instruments?

- I. The torque-to-weight ratio is high, which gives a high accuracy.
- II. A single instrument can be used for several, different current voltage ranges by using the instrument transformer.
- III. The scale is uniformly divided.
- IV. The cost of PMMC instruments is lower than that of moving iron instruments.

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

Question ID : 264330160645
Option 1 ID : 264330629913
Option 2 ID : 264330629912
Option 3 ID : 264330629911
Option 4 ID : 264330629914
Status : Answered
Chosen Option : 1

Q.31 Calculate the resistance per metre length of a wire of diameter 40 mm and specific resistance of $3.14 \times 10^{-4} \Omega\text{-m}$:

- Ans
- 1. $\frac{1}{4} \Omega$
 - 2. 400Ω
 - 3. 40Ω
 - 4. 4Ω

Question ID : 26433096413
Option 1 ID : 264330378392
Option 2 ID : 264330378391
Option 3 ID : 264330378390
Option 4 ID : 264330378389
Status : Answered
Chosen Option : 1

Q.32 In the context of electromagnetic induction, the fraction of magnetic flux produced by the current in one coil that links the other coil is called ____ .

- Ans
- 1. coefficient of coupling
 - 2. mutual induction
 - 3. mutually induced EMF
 - 4. self-induction

Question ID : 264330157623
Option 1 ID : 264330617854
Option 2 ID : 264330617852
Option 3 ID : 264330617853
Option 4 ID : 264330617851
Status : Answered
Chosen Option : 2

Q.33 Find the most economical size of a single core cable working on a 100 kV single phase system and the maximum permissible stress in the dielectric is not to exceed $50\sqrt{2}$ kV/cm.

- Ans
- 1. 10 cm
 - 2. 0 cm
 - 3. 4 cm
 - 4. 8 cm

Question ID : 26433099258
Option 1 ID : 264330389647
Option 2 ID : 264330389648
Option 3 ID : 264330389645
Option 4 ID : 264330389646
Status : Answered
Chosen Option : 3

Q.34 What will be the phase difference between the alternating current and the voltage represented by the following equation $I = I_0 \sin(\omega t)$ and $E = E_0 \cos(\omega t + \pi/3)$?

- Ans
- 1. $4\pi/3$
 - 2. $\pi/3$
 - 3. $5\pi/3$
 - 4. $5\pi/6$

Question ID : 264330159431
Option 1 ID : 264330625085
Option 2 ID : 264330625083
Option 3 ID : 264330625084
Option 4 ID : 264330625086
Status : Answered
Chosen Option : 1

Q.35 A 400 W, 100 V bulb is connected across a 50 V source. The current drawn by the bulb is _____.

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

Question ID : 264330160217
Option 1 ID : 264330628208
Option 2 ID : 264330628210
Option 3 ID : 264330628209
Option 4 ID : 264330628207
Status : Answered
Chosen Option : 4

Q.36 A capacitor that stores energy of 8 J and has capacitance of 1 F has a potential difference of _____ across it.

- Ans
- 1. 1 V
 - 2. 12 V
 - 3. 4 V
 - 4. 2 V

Question ID : 26433098182
Option 1 ID : 264330385381
Option 2 ID : 264330385384
Option 3 ID : 264330385383
Option 4 ID : 264330385382
Status : Answered
Chosen Option : 3

Q.37 Which of the following is a desirable characteristic of a DC servomotor?

- Ans
- 1. Less robust
 - 2. Slow response
 - 3. Less inertia
 - 4. Big size of the machine

Question ID : 264330164864
Option 1 ID : 264330646585
Option 2 ID : 264330646584
Option 3 ID : 264330646583
Option 4 ID : 264330646586
Status : Answered
Chosen Option : 1

Q.38 The Ohmic loss during the open-circuit test is considered negligible because:

- Ans
- 1. the Ohmic loss is proportional to the square of the applied voltage, which is high in the open-circuit test
 - 2. the Ohmic loss is proportional to the square of the applied current, which is low in the open-circuit test
 - 3. the Ohmic loss is proportional to the square of the applied current, which is high in the open-circuit test
 - 4. the Ohmic loss is proportional to the square of the applied voltage, which is low in the open-circuit test

Question ID : 264330163309

Option 1 ID : 264330640536

Option 2 ID : 264330640537

Option 3 ID : 264330640538

Option 4 ID : 264330640535

Status : Answered

Chosen Option : 1

Q.39 The bundled conductors can be formed from two or more stranded conductors, bundled together to increase the _____.

- Ans
- 1. line inductance
 - 2. communication line interference
 - 3. current carrying capacity
 - 4. copper losses

Question ID : 264330159735

Option 1 ID : 264330626297

Option 2 ID : 264330626298

Option 3 ID : 264330626296

Option 4 ID : 264330626295

Status : Answered

Chosen Option : 3

Q.40 The bandwidth of CRO is the range of frequencies over which gain of _____.

- Ans
- 1. horizontal amplifier is within 3 db of the mid-band frequency gain
 - 2. horizontal amplifier is within 5 db of the mid-band frequency gain
 - 3. vertical amplifier is within 3 db of the mid-band frequency gain
 - 4. vertical amplifier is within 5 db of the mid-band frequency gain

Question ID : 264330157579

Option 1 ID : 264330617675

Option 2 ID : 264330617676

Option 3 ID : 264330617677

Option 4 ID : 264330617678

Status : Answered

Chosen Option : 1

Q.41 What will happen with a single-phase induction motor that has a short-circuited capacitor?

- Ans
- 1. Will run in the same direction with less speed
 - 2. Will run
 - 3. Will run in the reverse direction
 - 4. Will not run

Question ID : 264330164875
Option 1 ID : 264330646629
Option 2 ID : 264330646628
Option 3 ID : 264330646630
Option 4 ID : 264330646627
Status : Answered
Chosen Option : 4

Q.42 How many terminals does a servo-motor contain?

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

Question ID : 264330164858
Option 1 ID : 264330646562
Option 2 ID : 264330646559
Option 3 ID : 264330646560
Option 4 ID : 264330646561
Status : Answered
Chosen Option : 3

Q.43 Diffusion capacitance of a p-n junction diode increases with increase in the _____ and the _____.

- Ans
- 1. mean lifetime of minority carriers; thermal voltage
 - 2. thermal voltage; ideality factor (η)
 - 3. diode current; thermal voltage
 - 4. mean lifetime of minority carriers; diode current

Question ID : 264330162822
Option 1 ID : 264330638605
Option 2 ID : 264330638606
Option 3 ID : 264330638604
Option 4 ID : 264330638603
Status : Answered
Chosen Option : 1

Q.44 The voltage across the impedance 'Z' is $100 \angle 15^\circ$ V and the current through 'Z' is $20 \angle -45^\circ$ A. Find the reactive power (Q).

- Ans
- 1. Q = 1000 VAR
 - 2. Q = 6000 VAR
 - 3. Q = 1732 VAR
 - 4. Q = 600 VAR

Question ID : 264330159857
Option 1 ID : 264330626776
Option 2 ID : 264330626777
Option 3 ID : 264330626775
Option 4 ID : 264330626778
Status : Answered
Chosen Option : 3

Q.45 The conductor of an overhead transmission line has cross-sectional area of 2 cm^2 . If the specific gravity of the conductor material is 9.9 gm/cm^3 and wind pressure is 1.5 kg/m length. The effective weight per metre of length (kg/m) of the conductor will be ____.

- Ans
- 1. 5.48 kg/m
 - 2. 2.48 kg/m
 - 3. 3.48 kg/m
 - 4. 4.48 kg/m

Question ID : 264330162603
Option 1 ID : 264330637742
Option 2 ID : 264330637739
Option 3 ID : 264330637740
Option 4 ID : 264330637741
Status : Answered
Chosen Option : 3

Q.46 In the wind power plant, which of the following features differentiates the wound rotor synchronous generator from squirrel cage induction generators?

- Ans
- 1. The wound rotor synchronous generator includes an external mechanism to control the rotor output.
 - 2. A gearbox is not required in the wound rotor synchronous generator.
 - 3. The wound rotor synchronous generator includes an external mechanism to control the stator side.
 - 4. A reactive power compensation unit is not needed in wound rotor synchronous generators.

Question ID : 26433099574
Option 1 ID : 264330390909
Option 2 ID : 264330390911
Option 3 ID : 264330390910
Option 4 ID : 264330390912
Status : Answered
Chosen Option : 3

Q.47 In the application of electrical and magnetic circuits, the heater element in an electric iron is manufactured by using ____.

- Ans
- 1. copper
 - 2. iron
 - 3. tungsten
 - 4. nichrome

Question ID : 264330157598
Option 1 ID : 264330617753
Option 2 ID : 264330617751
Option 3 ID : 264330617752
Option 4 ID : 264330617754
Status : Answered
Chosen Option : 4

Q.48 When one tenant re-lets space to another under the terms of their own lease, it is called _____.

- Ans
- 1. occupational lease
 - 2. perpetual lease
 - 3. sublease
 - 4. building lease

Question ID : 264330158159
Option 1 ID : 264330619996
Option 2 ID : 264330619995
Option 3 ID : 264330619997
Option 4 ID : 264330619998
Status : Answered
Chosen Option : 2

Q.49 Which of the following lamps is well suited for street lightning in terms of high luminous efficiency?

- Ans
- 1. Fluorescent lamp
 - 2. Compact fluorescent lamp
 - 3. Incandescent lamp
 - 4. Sodium vapour lamp

Question ID : 26433098204
Option 1 ID : 264330385471
Option 2 ID : 264330385469
Option 3 ID : 264330385470
Option 4 ID : 264330385472
Status : Answered
Chosen Option : 2

Q.50 Self-inductance does NOT depend on which of the following parameters?

- Ans
- 1. Flux
 - 2. Number of turns
 - 3. Current flowing through the conductor
 - 4. Length of the conductor

Question ID : 26433096869
Option 1 ID : 264330380215
Option 2 ID : 264330380213
Option 3 ID : 264330380216
Option 4 ID : 264330380214
Status : Answered
Chosen Option : 4

Q.51 In case of magnetic circuits, the flux produced per unit area of the magnetic material, for every unit of the magnetising force applied to it, is called _____.

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

Question ID : 264330157668
Option 1 ID : 264330618034
Option 2 ID : 264330618033
Option 3 ID : 264330618032
Option 4 ID : 264330618031
Status : Answered
Chosen Option : 1

Q.52 A power system consists of a coal-fired power plant of 800 MW with the availability factor of 0.8 and a wind farm of 400 MW with the availability factor of 0.5. Find the firm power of the system.

- Ans
- 1. 1800 MW
 - 2. 1200 MW
 - 3. 400 MW
 - 4. 840 MW

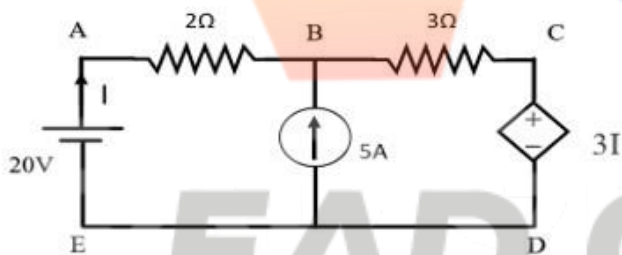
Question ID : 264330158059
 Option 1 ID : 264330619595
 Option 2 ID : 264330619597
 Option 3 ID : 264330619598
 Option 4 ID : 264330619596
 Status : Answered
 Chosen Option : 4

Q.53 In a transformer, the variation of which quantity leads to induce an EMF?

- Ans
- 1. Current
 - 2. Magnetic flux
 - 3. Frequency
 - 4. Voltage

Question ID : 26433096098
 Option 1 ID : 264330377161
 Option 2 ID : 264330377163
 Option 3 ID : 264330377162
 Option 4 ID : 264330377164
 Status : Answered
 Chosen Option : 2

Q.54 In the circuit shown below, the value of the current I is:



- Ans
- 1. $-\frac{5}{8}$ A
 - 2. $\frac{5}{8}$ A
 - 3. 0A
 - 4. 1A

Question ID : 26433096457
 Option 1 ID : 264330378565
 Option 2 ID : 264330378566
 Option 3 ID : 264330378567
 Option 4 ID : 264330378568
 Status : Answered
 Chosen Option : 1

Q.55 A wire of resistance 88Ω is stretched to twice its original length. The resistance of a stretched wire would be _____.

- Ans
- 1. 352Ω
 - 2. 176Ω
 - 3. 88Ω
 - 4. 22Ω

Question ID : 26433096405
Option 1 ID : 264330378360
Option 2 ID : 264330378359
Option 3 ID : 264330378358
Option 4 ID : 264330378357
Status : Answered
Chosen Option : 1

Q.56 A JFET has the following parameters: $I_{DSS} = 30 \text{ mA}$, $V_{GS}(\text{off}) = -5 \text{ V}$, $V_{GS} = -4.5 \text{ V}$. Find the value of drain current.

- Ans
- 1. 30 mA
 - 2. 0.5 mA
 - 3. 15 mA
 - 4. 0.3 mA

Question ID : 264330159781
Option 1 ID : 264330626474
Option 2 ID : 264330626472
Option 3 ID : 264330626473
Option 4 ID : 264330626471
Status : Answered
Chosen Option : 3

Q.57 Which of the following statements about the losses in a DC motor is INCORRECT?

- Ans
- 1. In series motors, the field ohmic loss forms a part of the armature circuit loss.
 - 2. The no load rotational loss is made up of iron loss and mechanical loss.
 - 3. Stray load losses are produced due to the distortion of the air gap flux due to armature reaction.
 - 4. Brush losses forms a part of mechanical losses.

Question ID : 26433098177
Option 1 ID : 264330385363
Option 2 ID : 264330385364
Option 3 ID : 264330385361
Option 4 ID : 264330385362
Status : Answered
Chosen Option : 2

Q.58 In commercial multimeters, to obtain the same deflection on corresponding DC and AC voltage ranges, the multiplier for AC range is to be _____.

- Ans
- 1. lowered proportionately
 - 2. dependent on the duration of testing
 - 3. kept the same
 - 4. increased proportionately

Question ID : 264330157596
Option 1 ID : 264330617743
Option 2 ID : 264330617746
Option 3 ID : 264330617745
Option 4 ID : 264330617744
Status : Answered
Chosen Option : 4

Q.59 Consider the following statements about damper winding used to start a synchronous motor and choose the suitable combination of correct choices.

- a) When a motor is overloaded it does not stop.
- b) Synchronous motor made self-starting by providing damper winding.
- c) Damper winding consists of short-circuited copper bars embedded in the face of the field poles.
- d) Since damper winding resistance is high so it takes a small current from the supply mains.

- Ans
- 1. Only a, b and c are true.
 - 2. All a, b, c, d are true.
 - 3. Both b and c are true.
 - 4. Both b and d are true.

Question ID : 26433099522
Option 1 ID : 264330390701
Option 2 ID : 264330390704
Option 3 ID : 264330390702
Option 4 ID : 264330390703
Status : Answered
Chosen Option : 3

Q.60 The candle power of a lamp placed normal to a working plane is 40 candle power. Find the distance if the illumination is 10 lux?

- Ans
- 1. 3 m
 - 2. 2.5 m
 - 3. 2 m
 - 4. 1.414 m

Question ID : 26433098187
Option 1 ID : 264330385404
Option 2 ID : 264330385403
Option 3 ID : 264330385402
Option 4 ID : 264330385401
Status : Answered
Chosen Option : 3

Q.61 Select the light bulb that uses the least amount of energy while yet producing an adequate amount of light.

- Ans
- 1. LED lamp
 - 2. Neon lamps
 - 3. Incandescent lamp
 - 4. Fluorescent lamp

Question ID : 264330158188
Option 1 ID : 264330620113
Option 2 ID : 264330620114
Option 3 ID : 264330620112
Option 4 ID : 264330620111
Status : Answered
Chosen Option : 4

Q.62 If the peak value of an alternating current is 8 A, then the RMS value of the current will be

- Ans
- 1. $\sqrt{3}$ A
 - 2. $3\sqrt{2}$ A
 - 3. $4\sqrt{2}$ A
 - 4. $2\sqrt{3}$ A

Question ID : 264330159429
Option 1 ID : 264330625077
Option 2 ID : 264330625076
Option 3 ID : 264330625075
Option 4 ID : 264330625078
Status : Answered
Chosen Option : 3

Q.63 The cable rating suitable for connecting the load of 3 kW to a single phase supply of 230 V is _____.

- Ans
- 1. 1.5 A
 - 2. 15 A
 - 3. 20 A
 - 4. 10 A

Question ID : 264330122636
Option 1 ID : 264330480655
Option 2 ID : 264330480657
Option 3 ID : 264330480658
Option 4 ID : 264330480656
Status : Answered
Chosen Option : 2

Q.64 Which of the following statements regarding the spinning reserve is/are true?
A) It is the reserve capacity which is in operation, but not available for service.
B) It acts as a cushion in case of emergency requirements.
C) It is a capacity which is always connected to the bus and is used in case of need.

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

Question ID : 264330158061
Option 1 ID : 264330619603
Option 2 ID : 264330619605
Option 3 ID : 264330619606
Option 4 ID : 264330619604
Status : Answered
Chosen Option : 4

Q.65 Which of the following types of fields is used as a coupling medium in all electromechanical conversion devices?

- Ans
- 1. Thermal field only
 - 2. Magnetic field only
 - 3. Both electric field and magnetic field
 - 4. Electric field only

Question ID : 264330160508
Option 1 ID : 264330629366
Option 2 ID : 264330629364
Option 3 ID : 264330629365
Option 4 ID : 264330629363
Status : Answered
Chosen Option : 2

Q.66 The method of creating uniform electrostatic stress in the dielectric of underground cables is known as _____ of cables.

- Ans
- 1. grading
 - 2. jointing
 - 3. laying
 - 4. armouring

Question ID : 264330158123
Option 1 ID : 264330619854
Option 2 ID : 264330619851
Option 3 ID : 264330619852
Option 4 ID : 264330619853
Status : Answered
Chosen Option : 1

Q.67 In a single value capacitor run motor, the starting torque is about _____ of rated torque.

- Ans
1. 10 to 30%
 2. 10 to 20%
 3. 50 to 100%
 4. 20 to 30%

Question ID : 26433099625
Option 1 ID : 264330391115
Option 2 ID : 264330391114
Option 3 ID : 264330391116
Option 4 ID : 264330391113
Status : Answered
Chosen Option : 3

Q.68 The instantaneous current in a circuit is given by $i = 4 \cos(\omega t + \theta)$ A. The RMS value of the current is:

- Ans
1. $3\sqrt{3}$ A
 2. zero
 3. $4\sqrt{2}$ A
 4. $2\sqrt{2}$ A

Question ID : 264330159428
Option 1 ID : 264330625072
Option 2 ID : 264330625074
Option 3 ID : 264330625073
Option 4 ID : 264330625071
Status : Answered
Chosen Option : 4

Q.69 Choose the correct alternative regarding Neon Lamps.

- Ans
1. The neon lamp consists of neon and argon gas.
 2. The power factor of the neon tube is higher.
 3. The neon lamp normally emits green colour.
 4. If helium gas is used instead of neon, a greenish red colour is obtained.

Question ID : 264330100101
Option 1 ID : 264330392979
Option 2 ID : 264330392980
Option 3 ID : 264330392977
Option 4 ID : 264330392978
Status : Answered
Chosen Option : 2

Q.70 Which of the following is NOT suitable for the overhead conductor of a transmission line?

- Ans
- 1. High electrical conductivity
 - 2. High specific gravity
 - 3. Lower cost
 - 4. High tensile strength

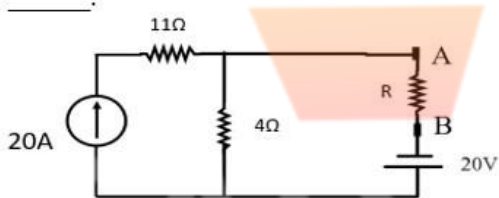
Question ID : 264330158112
Option 1 ID : 264330619808
Option 2 ID : 264330619810
Option 3 ID : 264330619807
Option 4 ID : 264330619809
Status : Answered
Chosen Option : 2

Q.71 Which type of generator is used in a large wind power plant?

- Ans
- 1. Induction generator
 - 2. Slip ring motor
 - 3. DC generator
 - 4. Three phase alternator

Question ID : 26433099576
Option 1 ID : 264330390919
Option 2 ID : 264330390920
Option 3 ID : 264330390917
Option 4 ID : 264330390918
Status : Answered
Chosen Option : 1

Q.72 The Thevenin's equivalent voltage across terminal A-B shown in the figure is _____.



- Ans
- 1. 10 V
 - 2. 100 V
 - 3. 300 V
 - 4. 80 V

Question ID : 26433096490
Option 1 ID : 264330378700
Option 2 ID : 264330378699
Option 3 ID : 264330378698
Option 4 ID : 264330378697
Status : Not Answered
Chosen Option : --

Q.73 How many windings are present in auto transformers?

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

Question ID : 264330100790
Option 1 ID : 264330395706
Option 2 ID : 264330395707
Option 3 ID : 264330395708
Option 4 ID : 264330395705
Status : Answered
Chosen Option : 2

Q.74 In electromagnetic induction, Lenz's law directly follows ____ .

- Ans 1. Faraday's first law
 2. Laplace's law
 3. the law of conservation of energy
 4. Faraday's second law

Question ID : 264330157614
Option 1 ID : 264330617816
Option 2 ID : 264330617815
Option 3 ID : 264330617818
Option 4 ID : 264330617817
Status : Answered
Chosen Option : 4

Q.75 The property where magnetic field of one of the coils makes the other coil to induce an EMF in it is called ____ .

- Ans 1. capacitance
 2. mutual inductance
 3. self-inductance
 4. resistance

Question ID : 26433096921
Option 1 ID : 264330380423
Option 2 ID : 264330380422
Option 3 ID : 264330380421
Option 4 ID : 264330380424
Status : Answered
Chosen Option : 2

Q.76 The armature reaction effect is high in ____ .

- Ans 1. both the armature and field control methods
 2. field control method
 3. armature control method
 4. series parallel control method

Question ID : 264330100781
Option 1 ID : 264330395671
Option 2 ID : 264330395670
Option 3 ID : 264330395669
Option 4 ID : 264330395672
Status : Answered
Chosen Option : 3

Q.77 A moving coil instrument gives a full scale deflection of 10 mA when the potential difference across its terminals is 100 mV. Calculate the shunt resistance for full scale deflection which corresponds to 200 A?

- Ans
- 1. 50.02 m Ω
 - 2. 500.02 $\mu\Omega$
 - 3. 50.02 $\mu\Omega$
 - 4. 500.02 m Ω

Question ID : 264330157595
Option 1 ID : 264330617739
Option 2 ID : 264330617742
Option 3 ID : 264330617741
Option 4 ID : 264330617740
Status : Answered
Chosen Option : 4

Q.78 In a shaded-pole induction motor, the main core flux is _____ by the flux in the ring that is developed by the _____ current.

- Ans
- 1. opposed; constant
 - 2. supported; constant
 - 3. opposed; circulating
 - 4. supported; circulating

Question ID : 264330164885
Option 1 ID : 264330646668
Option 2 ID : 264330646670
Option 3 ID : 264330646667
Option 4 ID : 264330646669
Status : Answered
Chosen Option : 4

Q.79 In a series connection of inductances, L_1 and L_2 are inductances and M is the mutual inductance. Find the total inductance.

- Ans
- 1. $L_1 + L_2 + 2M$
 - 2. $L_1 + L_2 - 2M$
 - 3. $L_1 + L_2 + M$
 - 4. $L_1 + L_2 - M$

Question ID : 264330157619
Option 1 ID : 264330617837
Option 2 ID : 264330617838
Option 3 ID : 264330617835
Option 4 ID : 264330617836
Status : Answered
Chosen Option : 2

Q.80 In case of heating effect, if 1 calorie of heat energy is converted into joules, then its value will be _____.

- Ans
- 1. 2.563 joules
 - 2. 3.743 joules
 - 3. 1.853 joules
 - 4. 4.186 joules

Question ID : 264330157609
Option 1 ID : 264330617795
Option 2 ID : 264330617797
Option 3 ID : 264330617796
Option 4 ID : 264330617798
Status : Answered
Chosen Option : 4

Q.81 Which of the following materials is used to construct the rotor of variable reluctance stepper motor with salient poles?

- Ans
- 1. Paramagnetic
 - 2. Ferromagnetic
 - 3. Diamagnetic
 - 4. Nonmagnetic

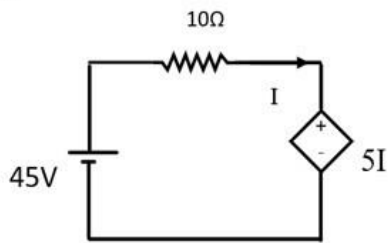
Question ID : 264330164867
Option 1 ID : 264330646595
Option 2 ID : 264330646598
Option 3 ID : 264330646596
Option 4 ID : 264330646597
Status : Answered
Chosen Option : 2

Q.82 In electromagnetic induction, according to Fleming's right-hand rule, the forefinger represents _____.

- Ans
- 1. direction of the motion of the conductor
 - 2. direction of the magnetic field
 - 3. direction of the induced EMF
 - 4. direction of the induced current

Question ID : 264330157613
Option 1 ID : 264330617811
Option 2 ID : 264330617812
Option 3 ID : 264330617814
Option 4 ID : 264330617813
Status : Answered
Chosen Option : 1

Q.83 In the circuit shown below, the power delivered by the dependent voltage source is:



- Ans
- 1. -15 W
 - 2. -45 W
 - 3. 0 W
 - 4. 45 W

Question ID : 26433096456
 Option 1 ID : 264330378562
 Option 2 ID : 264330378563
 Option 3 ID : 264330378564
 Option 4 ID : 264330378561
 Status : Answered
 Chosen Option : 2

Q.84 If the energy stored in a 5H inductor is 160 joules, then calculate the current passing through it.

- Ans
- 1. 8 A
 - 2. 64 A
 - 3. 18 A
 - 4. 10 A

Question ID : 264330160225
 Option 1 ID : 264330628239
 Option 2 ID : 264330628240
 Option 3 ID : 264330628242
 Option 4 ID : 264330628241
 Status : Answered
 Chosen Option : 1

Q.85 The no load ratio of a 50 Hz single-phase transformer is 2000/200 V. The maximum flux in the core is 0.05 Wb. What is the approximate number of primary turns?

- Ans
- 1. 145 turns
 - 2. 100 turns
 - 3. 200 turns
 - 4. 180 turns

Question ID : 264330100785
 Option 1 ID : 264330395686
 Option 2 ID : 264330395685
 Option 3 ID : 264330395688
 Option 4 ID : 264330395687
 Status : Not Answered
 Chosen Option : --

Q.86 The input signal of a common drain amplifier is applied to the Gate through the ____.

- Ans 1. coupling capacitor
 2. input resistor
 3. input inductor
 4. variable resistor

Question ID : 264330159779
Option 1 ID : 264330626466
Option 2 ID : 264330626463
Option 3 ID : 264330626465
Option 4 ID : 264330626464
Status : Answered
Chosen Option : 1

Q.87 The current (I) flowing through the p-n junction diode is given by _____.

- Ans 1. $I_0 = I(e^{qV/\eta KT} - 1)$
 2. $I_0 = I(e^{\eta KT/qV} - 1)$
 3. $I = I_0(e^{\eta KT/qV} - 1)$
 4. $I = I_0(e^{qV/\eta KT} - 1)$

Question ID : 26433098135
Option 1 ID : 264330385194
Option 2 ID : 264330385196
Option 3 ID : 264330385193
Option 4 ID : 264330385195
Status : Answered
Chosen Option : 4

Q.88 Identify the FALSE statement associated with the significance of stationary armature in synchronous machine.

- Ans 1. The stationary armature is responsible for producing the stator magnetic field in a synchronous machine. The magnetic field produced by the armature interacts with the magnetic field produced by the rotor to generate the torque necessary to turn the machine.
 2. The stationary armature is a stationary component that does not rotate, making it less prone to wear and tear. This results in a machine that is highly reliable and requires minimal maintenance.
 3. The stationary armature is typically housed in a stationary frame, which provides a large surface area for efficient cooling. This allows the armature to operate at high temperatures without overheating, resulting in higher efficiency and longer lifespan.
 4. In stationary armature configuration, the exciting current is relatively high; therefore, the slip rings and brush gear need to be heavy construction.

Question ID : 264330164901
Option 1 ID : 264330646731
Option 2 ID : 264330646732
Option 3 ID : 264330646733
Option 4 ID : 264330646734
Status : Not Answered
Chosen Option : --

Q.89 The deflection produced by a half wave rectifier type AC voltmeter is how much times the deflection produced by the DC of equal magnitude voltage?

- Ans
- 1. 0.40 times
 - 2. 0.80 times
 - 3. 0.45 times
 - 4. 0.90 times

Question ID : 264330157587
Option 1 ID : 264330617710
Option 2 ID : 264330617708
Option 3 ID : 264330617709
Option 4 ID : 264330617707
Status : Answered
Chosen Option : 3

Q.90 In a shaded-pole induction motor, the part with copper ring is known as _____, and the copper ring is known as _____, which is usually a single-turn coil.

- Ans
- 1. shaded coil; shading pole
 - 2. shaded coil; shading coil
 - 3. shaded pole; shading coil
 - 4. shaded pole; shading pole

Question ID : 264330164882
Option 1 ID : 264330646656
Option 2 ID : 264330646658
Option 3 ID : 264330646655
Option 4 ID : 264330646657
Status : Answered
Chosen Option : 1

Q.91 A heater of resistance 300Ω is connected to the main supply for 10 minutes. If the heat produced in the heater during this time is 18 J, then find the current through it.

- Ans
- 1. 0.10 A
 - 2. 10A
 - 3. 0.01A
 - 4. 100 A

Question ID : 264330160209
Option 1 ID : 264330628176
Option 2 ID : 264330628178
Option 3 ID : 264330628177
Option 4 ID : 264330628175
Status : Answered
Chosen Option : 3

Q.92 Which of the following quantities can be changed to control the speed of the brushless DC motor?

- Ans
- 1. Wind direction
 - 2. Wind pressure
 - 3. Applied DC source voltage
 - 4. Temperature

Question ID : 264330164860
Option 1 ID : 264330646567
Option 2 ID : 264330646570
Option 3 ID : 264330646568
Option 4 ID : 264330646569
Status : Answered
Chosen Option : 3

Q.93 If supports are at equal levels and tension in an overhead line is increased to two times, then _____.

- Ans
- 1. sag decreases to half of the previous value
 - 2. sag also increases to two times
 - 3. sag becomes zero
 - 4. sag also increases to four times

Question ID : 26433099472
Option 1 ID : 264330390501
Option 2 ID : 264330390502
Option 3 ID : 264330390503
Option 4 ID : 264330390504
Status : Answered
Chosen Option : 4

Q.94 In case of magnetic circuits, the ratio of the flux density developed in the magnetic material to the flux density developed in air, for the same amount of magnetising force applied to it, is called _____.

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

Question ID : 264330157669
Option 1 ID : 264330618038
Option 2 ID : 264330618037
Option 3 ID : 264330618036
Option 4 ID : 264330618035
Status : Answered
Chosen Option : 3

Q.95 Mechanical losses in a synchronous motor include:

- Ans
- 1. core losses in the laminations
 - 2. friction and windage losses
 - 3. Eddy current losses in the stator
 - 4. Joule losses in the rotor winding

Question ID : 264330164907

Option 1 ID : 264330646755

Option 2 ID : 264330646757

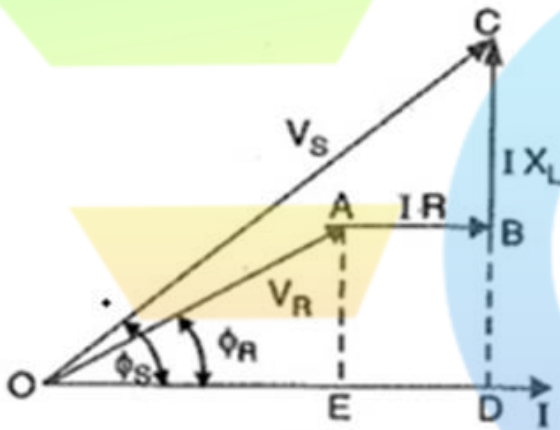
Option 3 ID : 264330646758

Option 4 ID : 264330646756

Status : Answered

Chosen Option : 2

Q.96 The figure shows the lagging load phasor representation of a transmission line, where, V_S , R , X_L , V_R and I represent the sending end voltage, line resistance, line inductance, receiving end voltage and line current, respectively. Identify the transmission line which most suited for it.



- Ans
- 1. 200 kV transmission line
 - 2. 400 kV transmission line
 - 3. 100 kV transmission line
 - 4. 10 kV transmission line

Question ID : 264330158107

Option 1 ID : 264330619789

Option 2 ID : 264330619790

Option 3 ID : 264330619788

Option 4 ID : 264330619787

Status : Not Answered

Chosen Option : --

Q.97 Calculate the line value of induced emf of a 10-pole, 3-phase, 60 Hz star-connected alternator with 60 slots and 4 conductors per slot. The value of the pitch factor is 0.966, the distribution factor is=0.966, the flux per pole is 0.12 Wb and it is sinusoidally distributed.

- Ans
- 1. 2066.76 V
 - 2. 688.92 V
 - 3. 1193.4 V
 - 4. 927.36 V

Question ID : 26433099516

Option 1 ID : 264330390678

Option 2 ID : 264330390679

Option 3 ID : 264330390677

Option 4 ID : 264330390680

Status : Not Answered

Chosen Option : --

Q.98 The dual pair of the node and open circuit are _____

- Ans
- 1. mesh and short circuit
 - 2. mesh and open circuit
 - 3. KVL and short circuit
 - 4. mesh and KCL

Question ID : 26433098278
Option 1 ID : 264330385765
Option 2 ID : 264330385768
Option 3 ID : 264330385766
Option 4 ID : 264330385767
Status : Answered
Chosen Option : 4

Q.99 Which of the following statements is NOT correct about generation of alternating voltage?

- Ans
- 1. The number of times the armature rotates per second, the same number of cycles will be produced by the armature voltage.
 - 2. A 4-pole generator completes four cycles per revolution.
 - 3. For the production of voltage, either the armature or the field rotates.
 - 4. An increase in the number of poles, increases the frequency.

Question ID : 26433096116
Option 1 ID : 264330377235
Option 2 ID : 264330377236
Option 3 ID : 264330377233
Option 4 ID : 264330377234
Status : Answered
Chosen Option : 2

Q.100 How much torque will be produced by the armature of a DC shunt machine if the machine generates 10,000 W of mechanical power in the armature and rotates at the speed of 1500 revolutions per minute?

- Ans
- 1. $\frac{200}{\pi}$ N-m
 - 2. $\frac{20}{\pi}$ N-m
 - 3. $\frac{2}{\pi}$ N-m
 - 4. 0 N-m

Question ID : 264330163298
Option 1 ID : 264330640492
Option 2 ID : 264330640494
Option 3 ID : 264330640493
Option 4 ID : 264330640491
Status : Not Answered
Chosen Option : --