

Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	06/06/2024
Exam Time	1:00 PM - 3:00 PM
Subject	Junior Engineer 2024 Electrical Paper I

Section : General Intelligence and Reasoning

Q.1 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
GCR, HEU, IGX, JIA, ?

- Ans
- ☒ 1. GLC
 - ☒ 2. JMC
 - ☒ 3. KKD
 - ☒ 4. MNB

Question ID : 630680382497
Option 1 ID : 6306801490905
Option 2 ID : 6306801490903
Option 3 ID : 6306801490904
Option 4 ID : 6306801490906
Status : Answered
Chosen Option : 3

Q.2 23 is related to 69 following a certain logic. Following the same logic, 41 is related to 123. To which of the following is 52 related following the same logic?

(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.)

- Ans
- ☒ 1. 126
 - ☒ 2. 136
 - ☒ 3. 146
 - ☒ 4. 156

Question ID : 630680396910
Option 1 ID : 6306801547708
Option 2 ID : 6306801547709
Option 3 ID : 6306801547710
Option 4 ID : 6306801547711
Status : Answered
Chosen Option : 4

Q.3 What should come in place of ? in the given series based on the English alphabetical order?
ITV, EPR, ALN, WHJ, ?

- Ans ☒ 1. QBH
☒ 2. SDF
☒ 3. RCH
☒ 4. QCG

Question ID : 630680375973
Option 1 ID : 6306801464964
Option 2 ID : 6306801464966
Option 3 ID : 6306801464963
Option 4 ID : 6306801464965
Status : Answered
Chosen Option : 2

Q.4 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some peacocks are robins.

All robins are sparrows.

All sparrows are owls.

Conclusions:

(I) No owl is a peacock.

(II) All sparrows are peacocks.

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

Question ID : 630680376881
Option 1 ID : 6306801468587
Option 2 ID : 6306801468590
Option 3 ID : 6306801468589
Option 4 ID : 6306801468588
Status : Answered
Chosen Option : 3

Q.5 E, F, G, H, I, J and K are sitting around a circular table with their backs facing the centre (not necessarily in the same order). J is sitting to the immediate left of G. K is sitting to the immediate right of E. H is sitting to the immediate right of K. I is sitting to the immediate right of H and immediate left of F. F is sitting to the immediate left of J. Who is an immediate neighbour of both E and J?

- Ans ☒ 1. H
☒ 2. G
☒ 3. F
☒ 4. K

Question ID : 630680377012
Option 1 ID : 6306801469112
Option 2 ID : 6306801469111
Option 3 ID : 6306801469113
Option 4 ID : 6306801469114
Status : Answered
Chosen Option : 2

Q.6 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)
(23, 60)
(13, 30)

- Ans ☒ 1. (9, 20)
☒ 2. (11, 26)
☒ 3. (10, 21)
☒ 4. (12, 28)

Question ID : 630680375854
Option 1 ID : 6306801464490
Option 2 ID : 6306801464488
Option 3 ID : 6306801464489
Option 4 ID : 6306801464487
Status : Answered
Chosen Option : 3

Q.7 In a certain code language,
'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the husband of B'.
How is F related to Z if 'D ÷ F × G ÷ H + N - Z'?

- Ans ☒ 1. Mother's sister
☒ 2. Husband's sister
☒ 3. Father's sister
☒ 4. Sister

Question ID : 630680378716
Option 1 ID : 6306801475911
Option 2 ID : 6306801475913
Option 3 ID : 6306801475914
Option 4 ID : 6306801475912
Status : Answered
Chosen Option : 3

Q.8 In a certain code language,
'A + B' means 'A is the father of B',
'A - B' means 'A is the mother of B',
'A × B' means 'A is the wife of B', and
'A ÷ B' means 'A is the brother of B'.
How is P related to T if 'P ÷ Q - R × S + T'?

- Ans ☒ 1. Sister's husband
☒ 2. Daughter's husband
☒ 3. Mother's brother
☒ 4. Mother's mother's brother

Question ID : 630680377455
Option 1 ID : 6306801470885
Option 2 ID : 6306801470886
Option 3 ID : 6306801470884
Option 4 ID : 6306801470883
Status : Answered
Chosen Option : 4

Q.9 18 is related to 126 following a certain logic. Following the same logic, 28 is related to 196. To which of the following is 48 related, following the same logic?
(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/deleting/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.)

Ans  1. 366

 2. 336

 3. 380

 4. 320

Question ID : 630680396906

Option 1 ID : 6306801547694

Option 2 ID : 6306801547693

Option 3 ID : 6306801547692

Option 4 ID : 6306801547695

Status : Answered

Chosen Option : 2

Q.10 OKRN is related to UQXT in a certain way based on the English alphabetical order. In the same way, KGNJ is related to QMTP. To which of the following is NJQM related, following the same logic?

Ans  1. PTSW

 2. PTWS

 3. TPWS

 4. TPSW

Question ID : 630680376566

Option 1 ID : 6306801467332

Option 2 ID : 6306801467331

Option 3 ID : 6306801467334

Option 4 ID : 6306801467333

Status : Answered

Chosen Option : 3

Q.11 The position(s) of how many letters will remain unchanged if each of the letter in the word AMPLIFY is arranged in the English alphabetical order?

Ans  1. 1

 2. 2

 3. 3

 4. 4

Question ID : 630680387533

Option 1 ID : 6306801510814

Option 2 ID : 6306801510815

Option 3 ID : 6306801510816

Option 4 ID : 6306801510817

Status : Answered

Chosen Option : 3

Q.12 Pillar E is to the east of Pillar D. Pillar A is to the west of Pillar D. Pillar B is to the north of Pillar A. Pillar C is to the south of Pillar A. What is the position of Pillar C with respect to Pillar E?

- Ans ☒ 1. South-West
- ☐ 2. North
- ☐ 3. North-West
- ☐ 4. South

Question ID : 630680382480
Option 1 ID : 6306801490838
Option 2 ID : 6306801490835
Option 3 ID : 6306801490836
Option 4 ID : 6306801490837
Status : Answered
Chosen Option : 1

Q.13 In a certain code language, 'CMPX' is coded as 'EONV' and 'WBFK' is coded as 'YDDI'. What is the code for 'XAOD' in the given language?

- Ans ☐ 1. YDND
- ☐ 2. XDOD
- ☐ 3. XBMC
- ☒ 4. ZCMB

Question ID : 630680375911
Option 1 ID : 6306801464715
Option 2 ID : 6306801464718
Option 3 ID : 6306801464717
Option 4 ID : 6306801464716
Status : Answered
Chosen Option : 4

Q.14 If A means +, B means −, C means × and D means ÷, then what will come in place of the question mark (?) in the following equation?
7 C 5 B 32 D 8 A 6 = ?

- Ans ☐ 1. 35
- ☒ 2. 37
- ☐ 3. 31
- ☐ 4. 33

Question ID : 630680376943
Option 1 ID : 6306801468837
Option 2 ID : 6306801468838
Option 3 ID : 6306801468835
Option 4 ID : 6306801468836
Status : Answered
Chosen Option : 2

Q.15 ADVN is related to GJPH in a certain way based on the English alphabetical order. In the same way, WHUB is related to CNOV. To which of the following is RFMJ related, following the same logic?

- Ans
- ☒ 1. WLFD
 - ☒ 2. XMGE
 - ☒ 3. WMFE
 - ☒ 4. XLGD

Question ID : 630680378983
Option 1 ID : 6306801476982
Option 2 ID : 6306801476980
Option 3 ID : 6306801476979
Option 4 ID : 6306801476981
Status : Answered
Chosen Option : 4

Q.16 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

RDKW, WIPB, BNUG, GSZL, ?

- Ans
- ☒ 1. LKJU
 - ☒ 2. LXDE
 - ☒ 3. LXEQ
 - ☒ 4. LQSW

Question ID : 630680469535
Option 1 ID : 6306801833907
Option 2 ID : 6306801833908
Option 3 ID : 6306801833909
Option 4 ID : 6306801833910
Status : Answered
Chosen Option : 3

Q.17 In a certain code language, 'oh my god' is written as 'jk sr qw', and 'god is good' is written as 'dk zx sr'. How is 'god' written in that language?

- Ans
- ☒ 1. sr
 - ☒ 2. qw
 - ☒ 3. jk
 - ☒ 4. dk

Question ID : 630680376409
Option 1 ID : 6306801466705
Option 2 ID : 6306801466704
Option 3 ID : 6306801466703
Option 4 ID : 6306801466706
Status : Answered
Chosen Option : 1

Q.18 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

Ans

 1.

 2.

 3.

4.

Question ID : **630680524808**

Option 1 ID : **6306802051332**

Option 2 ID : **6306802051333**

Option 3 ID : **6306802051331**

Option 4 ID : **6306802051334**

Status : **Answered**

Chosen Option : **4**

Q.19 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
FOT, HLV, JIX, LFZ, NCB, ?

- Ans
- ☒ 1. ODC
 - ☒ 2. MDE
 - ☒ 3. NCB
 - ☒ 4. PZD

Question ID : 630680379365
Option 1 ID : 6306801478504
Option 2 ID : 6306801478505
Option 3 ID : 6306801478506
Option 4 ID : 6306801478503
Status : Answered
Chosen Option : 4

Q.20 What will come in place of the question mark (?) in the following equation if '÷' and '×' are interchanged?
 $104 \times 8 \div 11 + 33 - 47 = ?$

- Ans
- ☒ 1. 124
 - ☒ 2. 137
 - ☒ 3. 129
 - ☒ 4. 135

Question ID : 630680376978
Option 1 ID : 6306801468977
Option 2 ID : 6306801468978
Option 3 ID : 6306801468976
Option 4 ID : 6306801468975
Status : Answered
Chosen Option : 3

Q.21 What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '÷' and '-' are interchanged?
 $18 - 6 + 3 \times 20 \div 9 = ?$

- Ans
- ☒ 1. 12
 - ☒ 2. 6
 - ☒ 3. 18
 - ☒ 4. 20

Question ID : 630680377709
Option 1 ID : 6306801471896
Option 2 ID : 6306801471895
Option 3 ID : 6306801471897
Option 4 ID : 6306801471898
Status : Answered
Chosen Option : 4

Q.22 The position of how many letters will remain unchanged if each of the letters in the word ADVISER is arranged in the English alphabetical order?

- Ans ☐ 1. One
☐ 2. Two
☒ 3. Three
☐ 4. Four

Question ID : 630680449448
Option 1 ID : 6306801754917
Option 2 ID : 6306801754918
Option 3 ID : 6306801754919
Option 4 ID : 6306801754920
Status : Answered
Chosen Option : 3

Q.23 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
FDI, HEK, JFM, LGO, ?

- Ans ☐ 1. MHQ
☒ 2. NHQ
☐ 3. MNQ
☐ 4. NOP

Question ID : 630680378949
Option 1 ID : 6306801476844
Option 2 ID : 6306801476845
Option 3 ID : 6306801476843
Option 4 ID : 6306801476846
Status : Answered
Chosen Option : 2

Q.24 How many triangles are there in the given figure?

- Ans ☐ 1. 6
☐ 2. 7
☒ 3. 8
☐ 4. 9

Question ID : 630680474539
Option 1 ID : 6306801853846
Option 2 ID : 6306801853847
Option 3 ID : 6306801853848
Option 4 ID : 6306801853849
Status : Answered
Chosen Option : 3

Q.25 What should come in place of the question mark (?) in the given series?
4, 10, 28, 82, 244, ?

- Ans ☒ 1. 680
☒ 2. 698
☒ 3. 714
☒ 4. 730

Question ID : 630680378870
Option 1 ID : 6306801476527
Option 2 ID : 6306801476528
Option 3 ID : 6306801476529
Option 4 ID : 6306801476530
Status : Answered
Chosen Option : 4

Q.26 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $24 + 6 - 11 \times 15 \div 12 = ?$

- Ans ☒ 1. 61
☒ 2. 41
☒ 3. 51
☒ 4. 31

Question ID : 630680377616
Option 1 ID : 6306801471524
Option 2 ID : 6306801471523
Option 3 ID : 6306801471526
Option 4 ID : 6306801471525
Status : Answered
Chosen Option : 2

Q.27 UPSN is related to LGJE in a certain way based on the English alphabetical order. In the same way, WRUP is related to NILG. To which of the following is SNQL related, following the same logic?

- Ans ☒ 1. JEHC
☒ 2. JECH
☒ 3. EJCH
☒ 4. EJHC

Question ID : 630680430650
Option 1 ID : 6306801680623
Option 2 ID : 6306801680624
Option 3 ID : 6306801680625
Option 4 ID : 6306801680626
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.28 Select the pair in which the numbers are related to each other in the same way as are the numbers of the given pairs.
(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/deleting/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.)
(376, 234)
(354, 212)

- Ans ☒ 1. (328, 283)
☒ 2. (281, 139)
☒ 3. (294, 145)
☒ 4. (349, 217)

Question ID : **630680392063**

Option 1 ID : **6306801528626**

Option 2 ID : **6306801528627**

Option 3 ID : **6306801528628**

Option 4 ID : **6306801528629**

Status : **Answered**

Chosen Option : **2**

Q.29 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

 1.

 2.

 3.

4.

Question ID : **630680524485**

Option 1 ID : **6306802050039**

Option 2 ID : **6306802050042**

Option 3 ID : **6306802050040**

Option 4 ID : **6306802050041**

Status : **Answered**

Chosen Option : **4**

Q.30 A, B, C, D, E, F and G are seven students from a college who appeared for an exam and scored different marks each. D scored the second highest marks. C scored immediately lower marks than D and immediately higher marks than F. E scored higher than only B. G scored less marks than four of the fellow students. Who scored the highest marks?

- Ans ☒ 1. F
☒ 2. B
☒ 3. A
☒ 4. D

Question ID : 630680521107
Option 1 ID : 6306802036854
Option 2 ID : 6306802036855
Option 3 ID : 6306802036856
Option 4 ID : 6306802036853
Status : Answered
Chosen Option : 3

Q.31 Select the option that indicates the arrangement of the following words in meaningful and logical order.

1. Town
2. Village
3. Country
4. State
5. City

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

Question ID : 630680404446
Option 1 ID : 6306801577284
Option 2 ID : 6306801577285
Option 3 ID : 6306801577286
Option 4 ID : 6306801577287
Status : Answered
Chosen Option : 2

Q.32 In a certain code language, 'bring him here' is coded as 'gy ct bo' and 'here is there' is coded as 'bo di yk'. How is 'here' coded in the given language?

- Ans ☒ 1. gy
☒ 2. ct
☒ 3. bo
☒ 4. yk

Question ID : 630680377686
Option 1 ID : 6306801471803
Option 2 ID : 6306801471804
Option 3 ID : 6306801471805
Option 4 ID : 6306801471806
Status : Answered
Chosen Option : 3

Q.33 A, B, C, D, E, F, and G are sitting around a circular table, facing the centre (not necessarily in the same order). Only 2 people sit between A and D when counted from the left of A. E sits to the immediate left of D. G sits to the immediate left of B. G is not an immediate neighbour of D. F sits to the immediate left of C. What is the position of B with respect to C?

Ans 1. Third to the right

☒ 2. Second to the right

☒ 3. Third to the left

☒ 4. Second to the left

Question ID : **630680376590**

Option 1 ID : **6306801467427**

Option 2 ID : **6306801467429**

Option 3 ID : **6306801467428**

Option 4 ID : **6306801467430**

Status : **Answered**

Chosen Option : **1**

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

Ans

1.

✗ 2.

✗ 3.

✗ 4.

Question ID : **630680524479**

Option 1 ID : **6306802050016**

Option 2 ID : **6306802050015**

Option 3 ID : **6306802050017**

Option 4 ID : **6306802050018**

Status : **Answered**

Chosen Option : 1

Q.35 What should come in place of the question mark (?) in the given series?
146, 218, 340, 512, 734, ?

- Ans
- ☒ 1. 1146
 - ☒ 2. 1134
 - ☒ 3. 1128
 - ☒ 4. 1006

Question ID : 630680396099

Option 1 ID : 6306801544521

Option 2 ID : 6306801544522

Option 3 ID : 6306801544523

Option 4 ID : 6306801544520

Status : Answered

Chosen Option : 4

Q.36 AD 17 is related to CF 13 in a certain way. In the same way, EH 29 is related to GJ 25.
To which of the following is IL 38 related, following the same logic?

- Ans
- ☒ 1. TY 35
 - ☒ 2. XZ 34
 - ☒ 3. KN 34
 - ☒ 4. TZ 35

Question ID : 630680377447

Option 1 ID : 6306801470853

Option 2 ID : 6306801470852

Option 3 ID : 6306801470851

Option 4 ID : 6306801470854

Status : Answered

Chosen Option : 3

Q.37 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

Ans

 1.

 2.

 3.

 4.

Question ID : **630680525513**

Option 1 ID : **6306802054136**

Option 2 ID : **6306802054139**

Option 3 ID : **6306802054137**

Option 4 ID : **6306802054138**


Status : **Answered**


Chosen Option : **3**

Q.38 What should come in place of the two question marks (?) in the given series in the same order?

42, 43, 47, 56, ?, 97, ?

Ans  1. 74, 135

 2. 71, 132

 3. 70, 131

 4. 72, 133

Question ID : **630680377720**

Option 1 ID : **6306801471940**

Option 2 ID : **6306801471941**

Option 3 ID : **6306801471942**

Option 4 ID : **6306801471939**

Status : **Answered**

Chosen Option : **4**

Q.39 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Ans

1.

 2.

 3.

 4.

Question ID : **630680456656**

Option 1 ID : **6306801783587**

Option 2 ID : **6306801783588**

Option 3 ID : **6306801783589**

Option 4 ID : **6306801783590**

Status : **Answered**

Chosen Option : 1

Q.40 Vikram walked 10 m towards the north. Then he turned right and walked 20 m. Then he turned right and walked 25 m. Then he turned left and walked 5 m. In what direction is he facing?

- Ans ☒ 1. West
☒ 2. South
☒ 3. East
☒ 4. North

Question ID : 630680377024
Option 1 ID : 6306801469160
Option 2 ID : 6306801469162
Option 3 ID : 6306801469159
Option 4 ID : 6306801469161
Status : Answered
Chosen Option : 3

Q.41 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements: Some bowls are spoons. All spoons are plates.

Conclusion 1: Some spoons are bowls.

Conclusion 2: Some bowls are plates.

- Ans ☒ 1. Both conclusions (1) and (2) follow
☒ 2. Only conclusion (1) follows
☒ 3. None of the conclusions follow
☒ 4. Only conclusion (2) follows

Question ID : 630680381545
Option 1 ID : 6306801487114
Option 2 ID : 6306801487111
Option 3 ID : 6306801487113
Option 4 ID : 6306801487112
Status : Answered
Chosen Option : 1

Q.42 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Running
2. Crawling
3. Cycling
4. Walking
5. Driving

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

Question ID : 630680565847
Option 1 ID : 6306802212350
Option 2 ID : 6306802212351
Option 3 ID : 6306802212349
Option 4 ID : 6306802212348
Status : Answered
Chosen Option : 3

Q.43 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

Ans

 1.

 2.

3.

 4.

Question ID : **630680454801**

Option 1 ID : **6306801776118**

Option 2 ID : **6306801776119**

Option 3 ID : **6306801776120**

Option 4 ID : **6306801776121**

Status : **Answered**

Chosen Option : **3**

Q.44 EJFI is related to KPLO in a certain way based on the English alphabetical order. In the same way, INJM is related to OTPS. To which of the following is LQMP related, following the same logic?

- Ans
- ☐ 1. RWVS
 - ☐ 2. SWVR
 - ☒ 3. RWSV
 - ☐ 4. SWRV

Question ID : 630680379503

Option 1 ID : 6306801479058

Option 2 ID : 6306801479055

Option 3 ID : 6306801479057

Option 4 ID : 6306801479056

Status : Answered

Chosen Option : 3

Q.45 Select the option in which the numbers share the same relationship as that shared by the given number triads.

39-36-33

67-64-61

(NOTE: Operations should be performed on the whole number, 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.)

- Ans
- ☐ 1. 64-54-50
 - ☐ 2. 120-116-105
 - ☐ 3. 100-94-90
 - ☒ 4. 98-95-92

Question ID : 630680387176

Option 1 ID : 6306801509401

Option 2 ID : 6306801509400

Option 3 ID : 6306801509398

Option 4 ID : 6306801509399

Status : Answered

Chosen Option : 4

Q.46 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.)

(12, 216, 6)

(17, 408, 8)

- Ans
- ☐ 1. (19, 190, 5)
 - ☐ 2. (11, 220, 5)
 - ☒ 3. (14, 210, 5)
 - ☐ 4. (8, 86, 12)

Question ID : 630680378064

Option 1 ID : 6306801473318

Option 2 ID : 6306801473315

Option 3 ID : 6306801473317

Option 4 ID : 6306801473316

Status : Answered

Chosen Option : 3

Q.47 CYTV is related to DZUW in a certain way based on the English alphabetical order. In the same way, GKOS is related to HLPT. To which of the following is BAHG related, following the same logic?

- Ans ☒ 1. ALPO
☒ 2. CBIH
☒ 3. PLIY
☒ 4. MJGH

Question ID : 630680377692
Option 1 ID : 6306801471829
Option 2 ID : 6306801471827
Option 3 ID : 6306801471828
Option 4 ID : 6306801471830
Status : Answered
Chosen Option : 2

Q.48 In a certain code language, 'let us eat' is written as 'de hj kn' and 'let us play' is written as 'de kn cx'. How is 'eat' written in the given language?

- Ans ☒ 1. hj
☒ 2. kn
☒ 3. de
☒ 4. cx

Question ID : 630680388162
Option 1 ID : 6306801513210
Option 2 ID : 6306801513211
Option 3 ID : 6306801513213
Option 4 ID : 6306801513212
Status : Answered
Chosen Option : 1

Q.49 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.)

Hematologists : Blood

- Ans ☒ 1. Pathologist : Eye
☒ 2. Oncologist : Cancer
☒ 3. Nephrologist : Nervous System
☒ 4. Cardiologist : Lungs

Question ID : 630680565338
Option 1 ID : 6306802210329
Option 2 ID : 6306802210327
Option 3 ID : 6306802210326
Option 4 ID : 6306802210328
Status : Answered
Chosen Option : 2

Q.50 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ZBL, YDM, XFN, WHO, ?

- Ans
- ☒ 1. RKL
 - ☒ 2. UJP
 - ☒ 3. VJP
 - ☒ 4. RKN

Question ID : 630680378951
Option 1 ID : 6306801476853
Option 2 ID : 6306801476851
Option 3 ID : 6306801476852
Option 4 ID : 6306801476854
Status : Answered
Chosen Option : 3

Section : General Awareness

Q.1 Why is it always emphasised NOT to touch any electric switch board with wet hands?

- Ans
- ☒ 1. Water can erode the switchboard.
 - ☒ 2. Combination of water and our body is a good conductor of electricity.
 - ☒ 3. Wet hands can fade away the colour coat of the switchboard.
 - ☒ 4. Wet hands might slip from the switch.

Question ID : 630680397591
Option 1 ID : 6306801550285
Option 2 ID : 6306801550286
Option 3 ID : 6306801550287
Option 4 ID : 6306801550288
Status : Answered
Chosen Option : 2

Q.2 Some simple multicellular organisms reproduce by first splitting into multiple pieces. Then each of these pieces grow up into a new individual. What is this method of reproduction known as?

- Ans
- ☒ 1. Regeneration
 - ☒ 2. Binary fission
 - ☒ 3. Multiple fission
 - ☒ 4. Fragmentation

Question ID : 630680403318
Option 1 ID : 6306801572782
Option 2 ID : 6306801572783
Option 3 ID : 6306801572784
Option 4 ID : 6306801572901
Status : Answered
Chosen Option : 3

Q.3 Which disease causes bone pain, stunted growth and soft, weak bones that can lead to skeletal deformities due to not having enough vitamin D?

Ans ☒ 1. Rickets

☐ 2. Pertussis

☐ 3. Dementia

☐ 4. Polio

Question ID : 630680404301

Option 1 ID : 6306801576702

Option 2 ID : 6306801576703

Option 3 ID : 6306801576704

Option 4 ID : 6306801576705

Status : Answered

Chosen Option : 1

Q.4 Which of the following is a colourless liquid whose formula is CHCl_3 , which evaporates rapidly and turns into gas?

Ans ☐ 1. Ethanol

☐ 2. Ammonia

☐ 3. Acetone

☒ 4. Chloroform

Question ID : 630680402996

Option 1 ID : 6306801571555

Option 2 ID : 6306801571557

Option 3 ID : 6306801571556

Option 4 ID : 6306801571558

Status : Answered

Chosen Option : 4

Q.5 Pramila Malik was in news to become the first woman Speaker of which state assembly in September 2023?

Ans ☒ 1. Odisha

☐ 2. Gujarat

☐ 3. Karnataka

☐ 4. Jharkhand

Question ID : 630680412270

Option 1 ID : 6306801607903

Option 2 ID : 6306801607904

Option 3 ID : 6306801607905

Option 4 ID : 6306801607906

Status : Answered

Chosen Option : 1

Q.6 The Project Great Indian Bustard was launched by the Government of _____ in June 2013.

- Ans
- ☒ 1. Bihar
 - ☒ 2. Manipur
 - ☒ 3. Uttarakhand
 - ☒ 4. Rajasthan

Question ID : 630680510995
Option 1 ID : 6306801997111
Option 2 ID : 6306801997113
Option 3 ID : 6306801997112
Option 4 ID : 6306801997110
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.7 Under which of the following ministries does 'VAIBHAV' Fellowship Programme announced by the Government of India in June 2023 ?

- Ans
- ☒ 1. Ministry of Human Resource Development
 - ☒ 2. Ministry of Science & Technology
 - ☒ 3. Ministry of Urban Development
 - ☒ 4. Ministry of Rural Development

Question ID : 630680513787
Option 1 ID : 6306802007775
Option 2 ID : 6306802007774
Option 3 ID : 6306802007776
Option 4 ID : 6306802007773
Status : Answered
Chosen Option : 1

Q.8 Which freedom is protected by Article 19(d) of the Constitution?

- Ans
- ☒ 1. Freedom to move freely throughout the territory of India
 - ☒ 2. Freedom of speech and expression
 - ☒ 3. Freedom to reside and settle in any part of India
 - ☒ 4. Freedom to assemble peacefully

Question ID : 630680804330
Option 1 ID : 6306803151052
Option 2 ID : 6306803151054
Option 3 ID : 6306803151051
Option 4 ID : 6306803151053
Status : Answered
Chosen Option : 1

Q.9 Which of the following is the chemical formula of baking soda?

- Ans
- ☒ 1. $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
 - ☒ 2. NaOH
 - ☒ 3. CaOCl_2
 - ☒ 4. NaHCO_3

Question ID : 630680421824
Option 1 ID : 6306801645739
Option 2 ID : 6306801645740
Option 3 ID : 6306801645741
Option 4 ID : 6306801645742
Status : Answered
Chosen Option : 4

Q.10 Where in India was the Indian music director and classical flautist Pandit Hariprasad Chaurasia born?

- Ans ☒ 1. Banaras
☒ 2. Jhansi
☒ 3. Prayagraj
☒ 4. Bihar

Question ID : 630680423537
Option 1 ID : 6306801652501
Option 2 ID : 6306801652500
Option 3 ID : 6306801652499
Option 4 ID : 6306801652502
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.11 A milliamp is a unit of measurement of electric current, which is equal to how many amps?

- Ans ☒ 1. 0.00001 AMP
☒ 2. 0.001 AMP
☒ 3. 0.0001 AMP
☒ 4. 0.01 AMP

Question ID : 630680402067
Option 1 ID : 6306801567969
Option 2 ID : 6306801567967
Option 3 ID : 6306801567966
Option 4 ID : 6306801567968
Status : Answered
Chosen Option : 2

Q.12 The Government launched a 'Scheme for Expansion and Modernisation of Fire Services in the States' in July 2023 under the _____ for strengthening fire services in the States.

- Ans ☒ 1. National Disaster Response Fund (NDRF)
☒ 2. National Disaster Relief Fund (NDRF)
☒ 3. National Disaster Regulation Fund (NDRF)
☒ 4. National Disaster Research Fund (NDRF)

Question ID : 630680455414
Option 1 ID : 6306801778570
Option 2 ID : 6306801778571
Option 3 ID : 6306801778572
Option 4 ID : 6306801778573
Status : Answered
Chosen Option : 1

Q.13 Which of the following health campaigns was launched by President Draupadi Murmu through a virtual event on 13 September 2023?

Ans ☒ 1. Ayushman Bhav

☐ 2. Ayurveda for One Health

☐ 3. Yoga for Mental Health

☐ 4. Health For All

Question ID : 630680412655

Option 1 ID : 6306801609443

Option 2 ID : 6306801609444

Option 3 ID : 6306801609445

Option 4 ID : 6306801609446

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.14 Which of the following demineralises the enamel of the teeth?

Ans ☐ 1. Soft toothbrush

☒ 2. Acids produced by bacteria

☐ 3. Toothpaste

☐ 4. Saliva

Question ID : 630680398071

Option 1 ID : 6306801552298

Option 2 ID : 6306801552300

Option 3 ID : 6306801552301

Option 4 ID : 6306801552299

Status : **Answered**

Chosen Option : 2

Q.15 The Arabian Sea is connected to the Red Sea, through the Strait of Bab-el-Mandeb and the Gulf of Eden, and the Persian Gulf via the _____.

Ans ☒ 1. Gulf of Oman

☐ 2. Gulf of Mexico

☐ 3. Gulf of Alaska

☐ 4. Gulf of Riga

Question ID : 630680562824

Option 1 ID : 6306802200229

Option 2 ID : 6306802200232

Option 3 ID : 6306802200231

Option 4 ID : 6306802200230

Status : **Answered**

Chosen Option : 1

Q.16 Name a sublimable substance that can be converted into gas without passing through any intermediate liquid phase.

- Ans
- ☒ 1. Rust
 - ☒ 2. Alum
 - ☒ 3. Chalk Powder
 - ☒ 4. Naphthalene

Question ID : 630680403598
Option 1 ID : 6306801573888
Option 2 ID : 6306801573887
Option 3 ID : 6306801573889
Option 4 ID : 6306801573886
Status : Answered
Chosen Option : 4

Q.17 If wildlife sanctuaries are there to protect wild animals, then what do biosphere reserves protect?

- Ans
- ☒ 1. Forests of the area
 - ☒ 2. Entire biodiversity of the area
 - ☒ 3. Native trees and plants
 - ☒ 4. Water animals of the area

Question ID : 630680539238
Option 1 ID : 6306802108094
Option 2 ID : 6306802108095
Option 3 ID : 6306802108092
Option 4 ID : 6306802108093
Status : Answered
Chosen Option : 2

Q.18 Limitations Law of 1859 is related to which of the following?

- Ans
- ☒ 1. Loan bonds
 - ☒ 2. Social reform
 - ☒ 3. Arms
 - ☒ 4. Indigo cultivation

Question ID : 630680511564
Option 1 ID : 6306801999380
Option 2 ID : 6306801999378
Option 3 ID : 6306801999379
Option 4 ID : 6306801999381
Status : Not Answered
Chosen Option : --

Q.19 What makes countries near the equator hotter than those which are away from the equator?

- Ans
- ☒ 1. Areas near the equator have more volcanoes.
 - ☒ 2. The equator is near the earth's core.
 - ☒ 3. Areas near the equator receive direct and more sunlight.
 - ☒ 4. The equator is a hot line.

Question ID : 630680546817
Option 1 ID : 6306802137836
Option 2 ID : 6306802137837
Option 3 ID : 6306802137835
Option 4 ID : 6306802137834
Status : Answered
Chosen Option : 3

Q.20 According to which of the following constitutional articles in India does the government need to present the estimated receipts and expenditures before the parliament?

- Ans ☒ 1. Article 212
☒ 2. Article 112
☒ 3. Article 312
☒ 4. Article 412

Question ID : 630680400202
Option 1 ID : 6306801560677
Option 2 ID : 6306801560678
Option 3 ID : 6306801560679
Option 4 ID : 6306801560680
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.21 Which of the following is an important step towards offering primary education to all children between the ages of 6 and 14?

- Ans ☒ 1. Adult Education Programme
☒ 2. Mid-day meal
☒ 3. Sarva Siksha Abhiyan
☒ 4. Rashtriya Madhyamik Shiksha Abhiyan

Question ID : 630680394643
Option 1 ID : 6306801538861
Option 2 ID : 6306801538858
Option 3 ID : 6306801538859
Option 4 ID : 6306801538860
Status : Answered
Chosen Option : 3

Q.22 Prime Minister Narendra Modi officially launched the Central Sector Scheme _____, for artisans and crafts persons across India in September 2023.

- Ans ☒ 1. PM Hastshilpi
☒ 2. PM Kaamgaar
☒ 3. PM Karigar
☒ 4. PM Vishwakarma

Question ID : 630680479132
Option 1 ID : 6306801871481
Option 2 ID : 6306801871482
Option 3 ID : 6306801871483
Option 4 ID : 6306801871484
Status : Answered
Chosen Option : 4

Q.23 What is the purpose of 'customs duty' in international trade?

- Ans ☒ 1. To encourage unlimited imports
- ☒ 2. To protect domestic industries by taxing imports
- ☒ 3. To standardise products internationally
- ☒ 4. To regulate the export of goods

Question ID : 630680460241
Option 1 ID : 6306801797410
Option 2 ID : 6306801797411
Option 3 ID : 6306801797412
Option 4 ID : 6306801797413
Status : Answered
Chosen Option : 2

Q.24 Which of the following are the features of the Parliamentary form of government?

- 1) The President is the nominal or de jure executive.
- 2) The Prime Minister is the titular executive.
- 3) The President is the head of state.
- 4) The Prime Minister is the head of government.

- Ans ☒ 1. Only 1, 3 and 4
- ☒ 2. Only 1, 2 and 3
- ☒ 3. Only 1, 2 and 4
- ☒ 4. Only 2, 3 and 4

Question ID : 630680426503
Option 1 ID : 6306801664098
Option 2 ID : 6306801664099
Option 3 ID : 6306801664100
Option 4 ID : 6306801664101
Status : Answered
Chosen Option : 1

Q.25 Who called off the Non-Cooperation Movement due to the Chauri Chaura incidence?

- Ans ☒ 1. Lala Lajpat Rai
- ☒ 2. Mahatma Gandhi
- ☒ 3. Rajendra Prasad
- ☒ 4. Chittaranjan Das

Question ID : 630680572349
Option 1 ID : 6306802238240
Option 2 ID : 6306802238241
Option 3 ID : 6306802238242
Option 4 ID : 6306802238243
Status : Answered
Chosen Option : 2

Q.26 Dribbling skills are NOT used in which of the following sports?

- Ans
- ☐ 1. Basketball
 - ☐ 2. Hockey
 - ☐ 3. Football
 - ☒ 4. Chess

Question ID : 630680430537
Option 1 ID : 6306801680173
Option 2 ID : 6306801680174
Option 3 ID : 6306801680175
Option 4 ID : 6306801680176
Status : Not Answered
Chosen Option : --

Q.27 In which location were the inaugural National Games, previously known as the 'All India Olympic Games,' held before the independence of India?

- Ans
- ☒ 1. Lahore
 - ☐ 2. Poona
 - ☐ 3. Bombay
 - ☐ 4. Patiala

Question ID : 630680441376
Option 1 ID : 6306801723158
Option 2 ID : 6306801723159
Option 3 ID : 6306801723160
Option 4 ID : 6306801723161
Status : Not Answered
Chosen Option : --

Q.28 Who was honoured with the National Kalidas Samman 2022 award for sitar playing?

- Ans
- ☐ 1. Nishat Khan
 - ☒ 2. Budhaditya Mukherjee
 - ☐ 3. Niladri Kumar
 - ☐ 4. Purbayan Chatterjee

Question ID : 630680454093
Option 1 ID : 6306801773309
Option 2 ID : 6306801773308
Option 3 ID : 6306801773310
Option 4 ID : 6306801773307
Status : Not Answered
Chosen Option : --

Q.29 A cricket ball of mass 160 grams was dropped from a height of 50 metres. What would be its kinetic energy just before touching the ground? [use the value of acceleration due to gravity as 10 m/s^2]

- Ans
- ☐ 1. 50 joules
 - ☒ 2. 80 joules
 - ☐ 3. 8 joules
 - ☐ 4. 160 joules

Question ID : 630680419679
Option 1 ID : 6306801637209
Option 2 ID : 6306801637210
Option 3 ID : 6306801637211
Option 4 ID : 6306801637212
Status : Answered
Chosen Option : 3

Q.30 Which of the following trees is NOT found in the tropical evergreen forests of India?

- Ans ☒ 1. Ebony
☒ 2. Amaltas
☒ 3. Rosewood
☒ 4. Mahogany

Question ID : 630680510929
Option 1 ID : 6306801996848
Option 2 ID : 6306801996849
Option 3 ID : 6306801996846
Option 4 ID : 6306801996847
Status : Answered
Chosen Option : 4

Q.31 Which group of beneficial bacteria is commonly used in fermented dairy products?

- Ans ☒ 1. Staphylococcus aureus
☒ 2. Streptomyces rhizobium
☒ 3. Lactobacillus acidophilus
☒ 4. Campylobacter jejuni

Question ID : 630680404441
Option 1 ID : 6306801577264
Option 2 ID : 6306801577266
Option 3 ID : 6306801577267
Option 4 ID : 6306801577265
Status : Answered
Chosen Option : 3

Q.32 What is the minimum age prescribed for a person to be eligible to become Vice-President of India?

- Ans ☒ 1. 25 years
☒ 2. 30 years
☒ 3. 35 years
☒ 4. 40 years

Question ID : 630680497510
Option 1 ID : 6306801943764
Option 2 ID : 6306801943765
Option 3 ID : 6306801943766
Option 4 ID : 6306801943767
Status : Answered
Chosen Option : 3

Q.33 Mr Ajit Pawar became the Deputy Chief Minister of which state on 2nd July 2023?

- Ans ☒ 1. Goa
☒ 2. Maharashtra
☒ 3. Gujarat
☒ 4. Rajasthan

Question ID : 630680617348
Option 1 ID : 6306802415630
Option 2 ID : 6306802415631
Option 3 ID : 6306802415632
Option 4 ID : 6306802415633
Status : Answered
Chosen Option : 2

Q.34 Which of the following is/are Pteridophyta?

- Ans ☒ 1. Mosses
☒ 2. Fern
☒ 3. Lichens
☒ 4. Hornworts

Question ID : 630680542128
Option 1 ID : 6306802119453
Option 2 ID : 6306802119454
Option 3 ID : 6306802119455
Option 4 ID : 6306802119456
Status : Answered
Chosen Option : 3

Q.35 Who can operate a blog?

- Ans ☒ 1. Individuals or small groups of people
☒ 2. Only businesses
☒ 3. Only large corporations
☒ 4. Only individuals

Question ID : 630680379372
Option 1 ID : 6306801478533
Option 2 ID : 6306801478532
Option 3 ID : 6306801478534
Option 4 ID : 6306801478531
Status : Answered
Chosen Option : 1

Q.36 Which of the following schemes focuses on reduced imports, increased exports and grassroots campaigns that support local initiatives towards self-reliance?

- Ans ☒ 1. Samarth Scheme
☒ 2. Vocal for Local
☒ 3. Mission Karmayogi
☒ 4. Skill India Mission

Question ID : 630680481024
Option 1 ID : 6306801878680
Option 2 ID : 6306801878681
Option 3 ID : 6306801878682
Option 4 ID : 6306801878683
Status : Answered
Chosen Option : 1

Q.37 If a windmill farm has to be set up, setting up it near a coastal area seems like a good idea. What could be the main reason behind this?

- Ans ☒ 1. No water scarcity
☒ 2. Heavily populated
☒ 3. Land and sea breezes
☒ 4. Chances of storms

Question ID : 630680546821
Option 1 ID : 6306802137850
Option 2 ID : 6306802137851
Option 3 ID : 6306802137852
Option 4 ID : 6306802137853
Status : Answered
Chosen Option : 3

Q.38 Which of the following animals is NOT a mammal?

- Ans ☒ 1. Dolphin
☒ 2. Elephant
☒ 3. Lizard
☒ 4. Bat

Question ID : 630680701426
Option 1 ID : 6306802747641
Option 2 ID : 6306802747644
Option 3 ID : 6306802747643
Option 4 ID : 6306802747642
Status : Answered
Chosen Option : 3

Q.39 Which of the following is a popular cloud storage service on the internet?

- Ans ☒ 1. Microsoft Word
☒ 2. Google Drive
☒ 3. Adobe Photoshop
☒ 4. Internet Explorer

Question ID : 630680572075
Option 1 ID : 6306802237160
Option 2 ID : 6306802237161
Option 3 ID : 6306802237162
Option 4 ID : 6306802237163
Status : Answered
Chosen Option : 2

Q.40 Which of the following is a function of the cytoskeleton?

- Ans ☒ 1. Protein synthesis
☒ 2. Cell division
☒ 3. ATP production
☒ 4. Cell support and shape

Question ID : 630680411633
Option 1 ID : 6306801605367
Option 2 ID : 6306801605368
Option 3 ID : 6306801605369
Option 4 ID : 6306801605370
Status : Answered
Chosen Option : 4

Q.41 Who said, "A single shelf of a good European library was worth the whole native literature of India and Arabia"?

- Ans ☒ 1. William Jones
☒ 2. Max Mueller
☒ 3. W Hunter
☒ 4. Thomas Macaulay

Question ID : 630680511594
Option 1 ID : 6306801999499
Option 2 ID : 6306801999500
Option 3 ID : 6306801999498
Option 4 ID : 6306801999501
Status : Not Answered
Chosen Option : --

Q.42 Which is the essential non-justiciable feature of the Indian Constitution associated with the welfare and well-being of the common man?

- Ans
- ☒ 1. Fundamental Rights
 - ☒ 2. Federalism
 - ☒ 3. Parliamentary Sovereignty
 - ☒ 4. Directive principles of State Policy

Question ID : 630680511435
Option 1 ID : 6306801998870
Option 2 ID : 6306801998872
Option 3 ID : 6306801998873
Option 4 ID : 6306801998871
Status : Answered
Chosen Option : 4

Q.43 Vitamin B12 is also known as:

- Ans
- ☒ 1. cyanocobalamin
 - ☒ 2. biotin
 - ☒ 3. pantothenic acid
 - ☒ 4. pyridoxine

Question ID : 630680544739
Option 1 ID : 6306802129719
Option 2 ID : 6306802129721
Option 3 ID : 6306802129718
Option 4 ID : 6306802129720
Status : Answered
Chosen Option : 1

Q.44 According to Census of India 2011, in which Union Territory was the highest population growth rate recorded?

- Ans
- ☒ 1. Dadra and Nagar Haveli
 - ☒ 2. Daman and Diu
 - ☒ 3. Andaman and Nicobar Islands
 - ☒ 4. Chandigarh

Question ID : 630680477702
Option 1 ID : 6306801865956
Option 2 ID : 6306801865957
Option 3 ID : 6306801865958
Option 4 ID : 6306801865959
Status : Answered
Chosen Option : 1

Q.45 What is the primary reason for a government to implement a Goods and Services Tax (GST)?

- Ans
- ☒ 1. To eliminate all indirect taxes
 - ☒ 2. To discourage all kinds of consumption
 - ☒ 3. To simplify the tax structure
 - ☒ 4. To increase the complexity of the tax system

Question ID : 630680535869
Option 1 ID : 6306802094827
Option 2 ID : 6306802094825
Option 3 ID : 6306802094824
Option 4 ID : 6306802094826
Status : Answered
Chosen Option : 1

Q.46 In which of the following Articles is fundamental duties, like protecting public property and renouncing violence, stated?

- Ans
- ☐ 1. Article 11 A
 - ☐ 2. Article 36 A
 - ☒ 3. Article 51A
 - ☐ 4. Article 72 A

Question ID : 630680493467
Option 1 ID : 6306801927607
Option 2 ID : 6306801927608
Option 3 ID : 6306801927609
Option 4 ID : 6306801927610
Status : Answered
Chosen Option : 3

Q.47 It is difficult to carry a heavy shopping bag with thin handles by hand, but slightly easier when the handles are covered with a thick piece of cloth. What is the reason behind that?

- Ans
- ☐ 1. Handles become stronger
 - ☐ 2. Cloth is colourful
 - ☒ 3. Increase in surface area reduces the force exerted
 - ☐ 4. Chances of tearing are eliminated

Question ID : 630680401764
Option 1 ID : 6306801566822
Option 2 ID : 6306801566823
Option 3 ID : 6306801566824
Option 4 ID : 6306801566825
Status : Answered
Chosen Option : 3

Q.48 According to Census of India 2011, which of the following states recorded a population density of more than 1100 persons per km²?

- Ans
- ☐ 1. Rajasthan
 - ☐ 2. Punjab
 - ☐ 3. Kerala
 - ☒ 4. Bihar

Question ID : 630680477708
Option 1 ID : 6306801865980
Option 2 ID : 6306801865981
Option 3 ID : 6306801865982
Option 4 ID : 6306801865983
Status : Answered
Chosen Option : 4

Q.49 What is the meaning of the word 'Taraf' under the Bahmani Sultanate?

- Ans ☒ 1. Merchant
☒ 2. Tax
☒ 3. Horse
☒ 4. Province

Question ID : 630680511633
Option 1 ID : 6306801999655
Option 2 ID : 6306801999657
Option 3 ID : 6306801999654
Option 4 ID : 6306801999656
Status : Answered
Chosen Option : 2

Q.50 The Rourkela Steel plant was set up in the year_____ in Odisha state.

- Ans ☒ 1. 1955
☒ 2. 1973
☒ 3. 1959
☒ 4. 1969

Question ID : 630680510978
Option 1 ID : 6306801997043
Option 2 ID : 6306801997045
Option 3 ID : 6306801997042
Option 4 ID : 6306801997044
Status : Answered
Chosen Option : 3

Section : General Engineering Electrical

Q.1 In the measurement of RMS value of a voltage in CRO, the peak-to-peak voltage is divided by which of the following values?

- Ans ☒ 1.
☒ 2.
☒ 3.
☒ 4.

Question ID : 630680198618
Option 1 ID : 630680770434
Option 2 ID : 630680770433
Option 3 ID : 630680770431
Option 4 ID : 630680770432
Status : Answered
Chosen Option : 1

Q.2 Lambert's Cosine Law describes the relationship between _____.

- Ans**
- ☐ 1. total lumen on the work plane and lumen emitted by lamp
 - ☐ 2. illumination and the distance of light it travels
 - ☒ 3. illumination and the angle of light incidence on a surface
 - ☐ 4. the wavelength of light and its speed in a medium

Question ID : 630680381637
Option 1 ID : 6306801487480
Option 2 ID : 6306801487481
Option 3 ID : 6306801487482
Option 4 ID : 6306801487479
Status : Answered
Chosen Option : 3

Q.3 What do you understand by fundamental period of a signal?

- Ans**
- ☒ 1. Time taken to complete first cycle of a periodic signal
 - ☐ 2. Time taken to complete every cycle of an aperiodic signal
 - ☐ 3. Time taken to complete last cycle of a periodic signal
 - ☐ 4. Time taken to complete every cycle of a periodic signal

Question ID : 630680340660
Option 1 ID : 6306801325083
Option 2 ID : 6306801325082
Option 3 ID : 6306801325084
Option 4 ID : 6306801325081
Status : Answered
Chosen Option : 1

Q.4 Which of the following is NOT a method for solution of medium transmission line?

- Ans**
- ☐ 1. Nominal- π method
 - ☐ 2. Nominal-T method
 - ☒ 3. Nominal-H method
 - ☐ 4. End condenser method

Question ID : 630680503834
Option 1 ID : 6306801968899
Option 2 ID : 6306801968898
Option 3 ID : 6306801968900
Option 4 ID : 6306801968897
Status : Answered
Chosen Option : 4

Q.5 Which of the following statements about the hysteresis loop of magnetic materials is correct?

- Ans**
- ☐ 1. The area of the hysteresis loop of a hard material is less than that of the soft material.
 - ☐ 2. The hysteresis loops of hard and soft materials are of the same area.
 - ☒ 3. The area of the hysteresis loop of a hard material is greater than that of the soft material.
 - ☐ 4. The area of the hysteresis loop of a hard material as well as a soft material is not dependent on temperature.

Question ID : 630680503968
Option 1 ID : 6306801969435
Option 2 ID : 6306801969433
Option 3 ID : 6306801969434
Option 4 ID : 6306801969436
Status : Answered
Chosen Option : 1

Q.6 The consumer associated with the ring main distribution scheme experiences _____ as compared to the radial distribution scheme.

- Ans ☒ 1. less voltage fluctuations
☒ 2. unity power factor always
☒ 3. no copper loss
☒ 4. less reliable power supply

Question ID : 630680503844
Option 1 ID : 6306801968938
Option 2 ID : 6306801968937
Option 3 ID : 6306801968940
Option 4 ID : 6306801968939
Status : Answered
Chosen Option : 2

Q.7 Back EMF is a significant quantity during operation of a DC motor. Which of the following statements regarding the concept of Back EMF is correct?

- Ans ☒ 1. At no load, the back EMF is zero.
☒ 2. Back EMF is not necessary for the electromechanical energy conversion in a motor.
☒ 3. The back EMF decreases considerably while loading the motor.
☒ 4. Back EMF increases considerably while loading the motor.

Question ID : 630680503389
Option 1 ID : 6306801967137
Option 2 ID : 6306801967139
Option 3 ID : 6306801967138
Option 4 ID : 6306801967140
Status : Answered
Chosen Option : 4

Q.8 The speed-torque characteristics of which motor whose speed falls when there is increase in load torque is suitable to the application?

- Ans ☒ 1. DC shunt motor
☒ 2. DC compound motor
☒ 3. DC differential compound motor
☒ 4. DC series motor

Question ID : 630680503377
Option 1 ID : 6306801967089
Option 2 ID : 6306801967090
Option 3 ID : 6306801967092
Option 4 ID : 6306801967091
Status : Answered
Chosen Option : 1

Q.9 How is the resistance of a wire related to the length of the wire?

- Ans ☒ 1. Inversely proportional
☒ 2. Directly proportional
☒ 3. Not related
☒ 4. Proportional to square of length

Question ID : 630680340672
Option 1 ID : 6306801325130
Option 2 ID : 6306801325129
Option 3 ID : 6306801325132
Option 4 ID : 6306801325131
Status : Answered
Chosen Option : 2

Q.10 In the estimation and costing, utmost importance is given for the payment of suppliers in an agreed time in order to maintain _____.

- Ans ☒ 1. deposit security
- ☒ 2. flexibility
- ☒ 3. the contract
- ☒ 4. the guarantee

Question ID : 630680363618
Option 1 ID : 6306801416217
Option 2 ID : 6306801416218
Option 3 ID : 6306801416219
Option 4 ID : 6306801416220
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.11 Which of the following is NOT correct with reference to full load testing of a single-phase transformer?

- Ans ☒ 1. This test is used to determine voltage regulation of the transformer.
- ☒ 2. In Sumpner's test, two identical transformers are taken, in which primary windings are connected in parallel whereas secondary windings are connected in series.
- ☒ 3. This test is used to determine temperature rise and efficiency of the transformer.
- ☒ 4. In Sumpner's test, two identical transformers are taken, in which primary windings are connected in parallel whereas secondary windings are connected in series but in phase opposition.

Question ID : 630680395396
Option 1 ID : 6306801541767
Option 2 ID : 6306801541766
Option 3 ID : 6306801541764
Option 4 ID : 6306801541765
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.12 The calculation of sending and receiving end voltage in an AC ring layout considers the voltage drop of:

- Ans ☒ 1. resistance alone
- ☒ 2. combined effects of resistance, inductance and capacitance
- ☒ 3. capacitance alone
- ☒ 4. inductance alone

Question ID : 630680503843
Option 1 ID : 6306801968933
Option 2 ID : 6306801968936
Option 3 ID : 6306801968934
Option 4 ID : 6306801968935
Status : Answered
Chosen Option : 2

Q.13 In stator resistance starter, if applied voltage across motor terminals is reduced by 50%, then torque is reduced to _____ of the full voltage value.

- Ans
- ☐ 1.
 - ☐ 2.
 - ☒ 3.
 - ☐ 4.

Question ID : 630680509547
Option 1 ID : 6306801991460
Option 2 ID : 6306801991459
Option 3 ID : 6306801991458
Option 4 ID : 6306801991457
Status : Answered
Chosen Option : 1

Q.14 Which of the following statements is true regarding the setting of an earth fault relay?

- Ans
- ☐ 1. The setting does not depend upon the rated full-load current of the line.
 - ☐ 2. The setting should always be equal to the rated full-load current of the line.
 - ☐ 3. The setting should always be greater than the rated full-load current of the line.
 - ☒ 4. The setting should always be less than the rated full-load current of the line.

Question ID : 630680218622
Option 1 ID : 630680848398
Option 2 ID : 630680848396
Option 3 ID : 630680848395
Option 4 ID : 630680848397
Status : Answered
Chosen Option : 4

Q.15 Which of the following statements are correct about armature leakage reactance of alternator?

- I. It is dependent on load current.
- II. It does not depend on load current.
- III. It is dependent on the phase angle between armature current and terminal voltage.
- IV. It does not depend on the phase angle between load current and terminal voltage.

- Ans
- ☐ 1. Only statements II and IV are correct
 - ☒ 2. Only statements I and III are correct
 - ☐ 3. Only statements I and IV are correct
 - ☐ 4. Only statements II and III are correct

Question ID : 630680315937
Option 1 ID : 6306801229417
Option 2 ID : 6306801229418
Option 3 ID : 6306801229419
Option 4 ID : 6306801229420
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.16 Two identical coils A and B have 400 turns placed such that 60% of flux produced by one coil links with the other. If a current of 10A flowing in coil A produces a flux of 20 mWb in it, find the mutual inductance between coil A and B.

- Ans
- ☐ 1. 480 H
 - ☐ 2. 100 H
 - ☒ 3. 0.48 H
 - ☐ 4. 10 H

Question ID : 630680504194
Option 1 ID : 6306801970338
Option 2 ID : 6306801970339
Option 3 ID : 6306801970337
Option 4 ID : 6306801970340
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.17 In case of electrical installations, if cable conductors are spiralling, then the resistance/unit length will _____.

- Ans
- ☒ 1. increase
 - ☐ 2. decrease
 - ☐ 3. remain the same
 - ☐ 4. become zero

Question ID : 630680363644
Option 1 ID : 6306801416321
Option 2 ID : 6306801416322
Option 3 ID : 6306801416323
Option 4 ID : 6306801416324
Status : Answered
Chosen Option : 2

Q.18 The value of unknown current in CRO is measured by:

- Ans
- ☐ 1. ratio of voltage measured across the unknown resistance to that unknown resistance itself
 - ☐ 2. ratio of voltage measured on CRO to resistance of the CRO
 - ☐ 3. ratio of voltage measured on CRO to resistance of Aquadag
 - ☒ 4. ratio of voltage measured on CRO to standard resistance

Question ID : 630680424753
Option 1 ID : 6306801657323
Option 2 ID : 6306801657325
Option 3 ID : 6306801657326
Option 4 ID : 6306801657324
Status : Answered
Chosen Option : 1

Q.19 In electric power, if a body makes N rpm and the torque acting is T newton-meter, then work done per minute will be _____.

- Ans ☒ 1. $m \times g$ joules
☒ 2. $2\pi NT$ joules
☒ 3. mgh joules
☒ 4. $(2\pi NT)/60$ joules

Question ID : 630680504169

Option 1 ID : 6306801970239

Option 2 ID : 6306801970237

Option 3 ID : 6306801970240

Option 4 ID : 6306801970238

Status : Answered

Chosen Option : 4

Q.20 The connections of three-phase energy metre for measuring three-phase power, three wire energy is similar to the connections of _____.

- Ans ☒ 1. three wattmeter for voltage measurement
☒ 2. two wattmeter for voltage measurement
☒ 3. three wattmeter for power measurement
☒ 4. two wattmeter for power measurement

Question ID : 630680509382

Option 1 ID : 6306801990818

Option 2 ID : 6306801990817

Option 3 ID : 6306801990816

Option 4 ID : 6306801990815

Status : Answered

Chosen Option : 4

Q.21 Lissajous patterns on a CRO has ten vertical maximum values and eight horizontal maximum values. The frequency of the horizontal input is 1000 Hz. Determine the frequency of the vertical input?

- Ans ☒ 1. 1344 Hz
☒ 2. 800 Hz
☒ 3. 1256 Hz
☒ 4. 1000 Hz

Question ID : 630680396146

Option 1 ID : 6306801544698

Option 2 ID : 6306801544696

Option 3 ID : 6306801544697

Option 4 ID : 6306801544699

Status : Answered

Chosen Option : 2

Q.22 Which of the following materials is most commonly used for the filaments in incandescent lamps?

- Ans ☒ 1. Tungsten
☐ 2. Gold
☐ 3. Iron
☐ 4. Aluminium

Question ID : 630680504209
Option 1 ID : 6306801970398
Option 2 ID : 6306801970400
Option 3 ID : 6306801970399
Option 4 ID : 6306801970397
Status : Answered
Chosen Option : 1

Q.23 In electrical circuits, the equivalent resistance of a complicated network of conductors is determined by applying _____.

- Ans ☐ 1. the direct method
☐ 2. Ampere's circuital law
☒ 3. Kirchhoff's law
☐ 4. Laplace's law

Question ID : 630680504218
Option 1 ID : 6306801970434
Option 2 ID : 6306801970436
Option 3 ID : 6306801970433
Option 4 ID : 6306801970435
Status : Answered
Chosen Option : 3

Q.24 In a capacitor, if a charge of 1 coulomb accumulates on each plate when a potential difference of 1 volt is applied across the plates, then the capacitance will be _____.

- Ans ☐ 1. 1 picofarad
☐ 2. 1 microfarad
☐ 3. 1 nano-farad
☒ 4. 1 farad

Question ID : 630680504240
Option 1 ID : 6306801970523
Option 2 ID : 6306801970522
Option 3 ID : 6306801970524
Option 4 ID : 6306801970521
Status : Answered
Chosen Option : 4

Q.25 The value of Thevenin's voltage across terminal a - b will be _____ .

- Ans
- ☐ 1. 12 V
 - ☐ 2. 0 V
 - ☒ 3. 62 V
 - ☐ 4. 50 V

Question ID : 630680209178
Option 1 ID : 630680810927
Option 2 ID : 630680810930
Option 3 ID : 630680810929
Option 4 ID : 630680810928
Status : Marked For Review
Chosen Option : 1

Q.26 Stability factors are defined as the rate of change of _____ with respect to the _____, keeping both the base current and the current gain β constant.

- Ans
- ☐ 1. emitter current; collector base leakage current
 - ☒ 2. collector current; collector base leakage current
 - ☐ 3. collector base leakage current; collector current
 - ☐ 4. collector base leakage current; emitter current

Question ID : 630680502521
Option 1 ID : 6306801963668
Option 2 ID : 6306801963667
Option 3 ID : 6306801963666
Option 4 ID : 6306801963669
Status : Answered
Chosen Option : 4

Q.27 The magnetic flux through a 150 turns coil increases at the rate of 0.08 wb/s. What is the induced EMF between the ends of the coil?

- Ans
- ☐ 1. 24 volts
 - ☐ 2. 120 volts
 - ☐ 3. 20 volts
 - ☒ 4. 12 volts

Question ID : 630680504201
Option 1 ID : 6306801970366
Option 2 ID : 6306801970368
Option 3 ID : 6306801970367
Option 4 ID : 6306801970365
Status : Answered
Chosen Option : 4

Q.28 A 415 V, 3-phase voltage is applied to a balanced star connected purely resistive load of 10 Ω . What is the ratio of reactive power to active power?

- Ans ☒ 1. 1
☒ 2. 100
☒ 3. 0
☒ 4. Infinity

Question ID : 630680209223

Option 1 ID : 630680811107

Option 2 ID : 630680811110

Option 3 ID : 630680811109

Option 4 ID : 630680811108

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.29

- Ans ☒ 1.
☒ 2.
☒ 3.
☒ 4.

Question ID : 630680504178

Option 1 ID : 6306801970273

Option 2 ID : 6306801970276

Option 3 ID : 6306801970275

Option 4 ID : 6306801970274

Status : **Answered**

Chosen Option : 1

Q.30 Which of the following is a key indicator of good weld quality?

- Ans ☒ 1. The depth of weld penetration is minimal
☒ 2. A good weld should be non-uniform throughout its length
☒ 3. No crater cracking on the weld
☒ 4. The weld metal burns through the base material

Question ID : 630680381619

Option 1 ID : 6306801487408

Option 2 ID : 6306801487409

Option 3 ID : 6306801487407

Option 4 ID : 6306801487410

Status : **Answered**

Chosen Option : 3

Q.31 In any electric circuit, if i_1 and i_3 are incoming currents and i_2 and i_4 are outgoing currents from a node, then according to KCL which is the correct answer?

- Ans
- ☐ 1. $i_4 - i_1 = i_2 + i_3$
 - ☐ 2. $i_1 - i_2 = i_3 - i_4$
 - ☐ 3. $i_1 + i_2 = i_3 + i_4$
 - ☒ 4. $i_1 + i_3 = i_2 + i_4$

Question ID : 630680340628
Option 1 ID : 6306801324956
Option 2 ID : 6306801324955
Option 3 ID : 6306801324953
Option 4 ID : 6306801324954
Status : Answered
Chosen Option : 4

Q.32 If two identical 2 A, 2 Ω Norton equivalent circuits are connected in parallel with like polarity connected to like polarity, the combined Norton equivalent circuit is:

- Ans
- ☐ 1. 2 A, 4 Ω
 - ☐ 2. 4 A, 4 Ω
 - ☐ 3. 0 A, 1 Ω
 - ☒ 4. 4 A, 1 Ω

Question ID : 630680334682
Option 1 ID : 6306801301987
Option 2 ID : 6306801301985
Option 3 ID : 6306801301988
Option 4 ID : 6306801301986
Status : Answered
Chosen Option : 4

Q.33 If Δ is the phase angle between supply voltage and pressure coil flux, which of the following statements is correct about the adjustable resistance used in the energy meter?

- Ans
- ☒ 1. It has very low resistance to adjust Δ to 90°.
 - ☐ 2. It has very low resistance to adjust Δ to 0°.
 - ☐ 3. It has very high resistance to adjust Δ to 90°.
 - ☐ 4. It has very high resistance to adjust Δ to 0°.

Question ID : 630680509375
Option 1 ID : 6306801990787
Option 2 ID : 6306801990788
Option 3 ID : 6306801990789
Option 4 ID : 6306801990790
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.34 The built-in potential of a p-n junction _____.

- Ans ☐ 1. does not depend on temperature and doping concentration
- ☒ 2. depends on both temperature and doping concentration
- ☐ 3. depends on doping concentration only
- ☐ 4. depends on temperature only

Question ID : 630680333359

Option 1 ID : 6306801296712

Option 2 ID : 6306801296711

Option 3 ID : 6306801296710

Option 4 ID : 6306801296709

Status : Answered

Chosen Option : 2

Q.35 Which of the following types of installations is NOT a part of NEC (National Electrical Code)?

- Ans ☐ 1. Sports buildings
- ☐ 2. Medical establishments
- ☐ 3. Agriculture premises
- ☒ 4. Traction

Question ID : 630680333217

Option 1 ID : 6306801296142

Option 2 ID : 6306801296141

Option 3 ID : 6306801296144

Option 4 ID : 6306801296143

Status : Answered

Chosen Option : 2

Q.36 What is the diversity factor in a power system?

- Ans ☐ 1. The ratio of the maximum demand of the power station to the sum of average demands of all consumers connected to it
- ☐ 2. The ratio of the maximum demand of the power station to the sum of individual minimum demands of all consumers
- ☐ 3. The ratio of maximum demand of the power station to the sum of individual maximum demands of all consumers connected to it
- ☒ 4. The ratio of the sum of individual maximum demands of all consumers to the maximum demand of the power station

Question ID : 630680374428

Option 1 ID : 6306801458893

Option 2 ID : 6306801458894

Option 3 ID : 6306801458891

Option 4 ID : 6306801458892

Status : Answered

Chosen Option : 3

Q.37 The polar form of a vector is $10\angle 30^\circ$. What is the rectangular form of this vector?

Ans

☐ 1.

☒ 2.

☐ 3.

☐ 4.

Question ID : 630680504463

Option 1 ID : 6306801971416

Option 2 ID : 6306801971413

Option 3 ID : 6306801971414

Option 4 ID : 6306801971415

Status : Answered

Chosen Option : 2

Q.38 As per the principles of estimation and costing, if the quantity of materials required for work is not ready, then the minimum order quantity required shall be requested in the _____.

Ans ☐ 1. purchase order

☒ 2. tender enquiry

☐ 3. comparative statement

☐ 4. purchase enquiry

Question ID : 630680363627

Option 1 ID : 6306801416253

Option 2 ID : 6306801416254

Option 3 ID : 6306801416256

Option 4 ID : 6306801416255

Status : Answered

Chosen Option : 1

Q.39 What is the significance of having hot reserve capacity in a power system?

Ans ☐ 1. To act as a secondary power source during peak demand periods.

☒ 2. To meet sudden fluctuations in electricity demand and maintain grid balance

☐ 3. To provide backup power in case of a complete power outage.

☐ 4. To ensure power system stability and reliability during emergencies or unexpected events.

Question ID : 630680426240

Option 1 ID : 6306801663064

Option 2 ID : 6306801663066

Option 3 ID : 6306801663063

Option 4 ID : 6306801663065

Status : Answered

Chosen Option : 4

Q.40 Which of the following conditions is favourable for the application of radial distribution network?

- Ans** ☒ 1. Power is generated at high voltage and substation is located very far away from the load centre
- ☒ 2. Power is generated at high voltage and substation is located at the load centre
- ☒ 3. Power is generated at low voltage and substation is located very far away from load centre
- ☒ 4. Power is generated at low voltage and substation is located at the load centre

Question ID : 630680503817

Option 1 ID : 6306801968831

Option 2 ID : 6306801968832

Option 3 ID : 6306801968829

Option 4 ID : 6306801968830

Status : Answered

Chosen Option : 1

Q.41 Damper winding in synchronous motors is used to _____.

- A) Prevent the effect of hunting
- B) Make synchronous motors self-starting
- C) Reduce the speed of synchronous motors
- D) Provide constant synchronous motor torque

Ans ☒ 1. A and B

☒ 2. A and D

☒ 3. C and D

☒ 4. B and C

Question ID : 630680337175

Option 1 ID : 6306801311423

Option 2 ID : 6306801311422

Option 3 ID : 6306801311421

Option 4 ID : 6306801311424

Status : Answered

Chosen Option : 2

Q.42 In an electrostatic instrument, the sensitivity can be increased by _____.

- Ans** ☒ 1. increasing the distance between the plates
- ☒ 2. using a phase-shifting capacitor
- ☒ 3. using a magnetic damping mechanism
- ☒ 4. increasing the area of the plates

Question ID : 630680509366

Option 1 ID : 6306801990752

Option 2 ID : 6306801990754

Option 3 ID : 6306801990753

Option 4 ID : 6306801990751

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.43 A single phase transmission line is transmitting 1,100 KW power at 11 kV and at unity power factor. If it has a total resistance of $5\ \Omega$, what is the efficiency of the transmission line?

- Ans
- ☒ 1. 80.96%
 - ☒ 2. 100%
 - ☒ 3. 89.65%
 - ☒ 4. 99.54%

Question ID : 630680503830
Option 1 ID : 6306801968881
Option 2 ID : 6306801968884
Option 3 ID : 6306801968882
Option 4 ID : 6306801968883
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.44 A 400V, 3-phase, star-connected synchronous motor has armature current of 200A at effective resistance of 0.04 OHMS. The short-circuit load loss at half-full load is _____.

- Ans
- ☒ 1. 2000W
 - ☒ 2. 2100 W
 - ☒ 3. 1200 W
 - ☒ 4. 1000W

Question ID : 630680384371
Option 1 ID : 6306801498373
Option 2 ID : 6306801498370
Option 3 ID : 6306801498371
Option 4 ID : 6306801498372
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.45 An electrical network contains only one loop and no other mesh. How many KVL equations can be formed for the circuit?

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

Question ID : 630680340712
Option 1 ID : 6306801325290
Option 2 ID : 6306801325291
Option 3 ID : 6306801325289
Option 4 ID : 6306801325292
Status : Answered
Chosen Option : 3

Q.46 What are bushings in transformers used for?

- Ans
- ☒ 1. They are used to cool the transformer oil.
 - ☒ 2. They are used to filter contaminants from the transformer oil.
 - ☒ 3. They are used to connect the transformer to the power grid.
 - ☒ 4. They are used to insulate the transformer leads as they come out through the tank.

Question ID : 630680503327
Option 1 ID : 6306801966891
Option 2 ID : 6306801966892
Option 3 ID : 6306801966889
Option 4 ID : 6306801966890
Status : Answered
Chosen Option : 3

Q.47 An induction motor can be treated as a transformer with _____.

- Ans
- ☒ 1. short circuited primary winding
 - ☒ 2. short circuited secondary winding
 - ☒ 3. open circuited primary winding
 - ☒ 4. open circuited secondary winding

Question ID : 630680509579
Option 1 ID : 6306801991587
Option 2 ID : 6306801991585
Option 3 ID : 6306801991588
Option 4 ID : 6306801991586
Status : Answered
Chosen Option : 4

Q.48 What is the purpose of a maximum power point tracker (MPPT) in a PV system?

- Ans
- ☒ 1. To maximise the electrical power output of the PV system
 - ☒ 2. To convert DC current to AC current
 - ☒ 3. To increase the open circuit voltage (Voc) of the PV cells
 - ☒ 4. To reduce the power losses within the PV cells

Question ID : 630680374471
Option 1 ID : 6306801459065
Option 2 ID : 6306801459066
Option 3 ID : 6306801459064
Option 4 ID : 6306801459063
Status : Answered
Chosen Option : 1

Q.49 In regard to estimation and costing of public lighting, which of the following should be adequate to provide visibility that guarantees for the user the maximum safety and sufficient visual comfort?

- Ans
- ☒ 1. Level of luminance
 - ☒ 2. Limitations of glare
 - ☒ 3. Uniformity of luminance
 - ☒ 4. Optical guidance

Question ID : 630680363645
Option 1 ID : 6306801416328
Option 2 ID : 6306801416327
Option 3 ID : 6306801416326
Option 4 ID : 6306801416325
Status : Answered
Chosen Option : 4

Q.50 Which of the following statements are true regarding parts of a transformer?

- (i) The thickness of laminations varies from 0.35 mm to 0.5 mm.
- (ii) The material used for breather is blue in colour when it is damp and whitish pink when dry.
- (iii) For a constant input voltage, the output voltage can be varied over a small range by providing few tapings.

Ans ☒ 1. (i) and (ii)

☒ 2. (i) and (iii)

☒ 3. (ii) and (iii)

☒ 4. (i), (ii) and (iii)

Question ID : 630680503367

Option 1 ID : 6306801967049

Option 2 ID : 6306801967051

Option 3 ID : 6306801967050

Option 4 ID : 6306801967052

Status : Answered

Chosen Option : 4

Q.51

Ans ☒ 1. 10V

☒ 2. 20V

☒ 3. 40V

☒ 4. 30V

Question ID : 630680502539

Option 1 ID : 6306801963741

Option 2 ID : 6306801963739

Option 3 ID : 6306801963740

Option 4 ID : 6306801963738

Status : Answered

Chosen Option : 1

Q.52 The advantage of using soft starter for an induction motor is for protection against_____.

Ans ☒ 1. only undercurrent

☒ 2. only overcurrent

☒ 3. phase failure, overcurrent, and undercurrent

☒ 4. only phase failure

Question ID : 630680509558

Option 1 ID : 6306801991504

Option 2 ID : 6306801991503

Option 3 ID : 6306801991501

Option 4 ID : 6306801991502

Status : Answered

Chosen Option : 3

Q.53 In a metal oxide semiconductor FET, the metal oxide layer acts as a/an _____.

Ans ✓ 1. dielectric

✗ 2. capacitor

✗ 3. electric field

✗ 4. gate

Question ID : 630680504250

Option 1 ID : 6306801970564

Option 2 ID : 6306801970561

Option 3 ID : 6306801970563

Option 4 ID : 6306801970562

Status : Answered

Chosen Option : 1

Q.54 In an induction motor, the relationship between gross mechanical power developed and rotor input is _____.

Ans ✓ 1. Gross mechanical power developed = $(1-S) \times \text{Rotor input}$

✗ 2. Gross mechanical power developed = $(1/S) \times \text{Rotor input}$

✗ 3. Gross mechanical power developed = $(2-S) \times \text{Rotor input}$

✗ 4. Gross mechanical power developed = $S \times \text{Rotor input}$

Question ID : 630680509546

Option 1 ID : 6306801991454

Option 2 ID : 6306801991455

Option 3 ID : 6306801991456

Option 4 ID : 6306801991453

Status : Answered

Chosen Option : 1

Q.55 Which of the following types of cooling is employed in small and medium distribution transformers?

Ans ✓ 1. Oil filled self-cooled

✗ 2. Water filled self-cooled

✗ 3. Oil filled water cooled

✗ 4. Water filled oil cooled

Question ID : 630680227805

Option 1 ID : 630680883898

Option 2 ID : 630680883897

Option 3 ID : 630680883896

Option 4 ID : 630680883895

Status : Answered

Chosen Option : 1

Q.56 The thermal efficiency of a steam plant is defined as _____.

- Ans ☒ 1. the ratio of heat equivalent of electrical output to the heat of combustion of coal
- ☒ 2. the ratio of heat of combustion of coal to the heat equivalent of electrical output
- ☒ 3. the ratio of heat equivalent of mechanical energy transmitted to the turbine shaft to the heat of combustion of coal
- ☒ 4. the ratio of heat of combustion of coal to the heat equivalent of mechanical energy transmitted to the turbine shaft

Question ID : 630680509436

Option 1 ID : 6306801991013

Option 2 ID : 6306801991015

Option 3 ID : 6306801991014

Option 4 ID : 6306801991016

Status : Answered

Chosen Option : 3

Q.57 Which of the following are the significance of good welds?

- I) Good welds provide strong and reliable bonds between metal components.
- II) High-quality welds require the need for rework, repairs, etc.
- III) They assist fatigue, corrosion and wear contributing to reduce the longevity of the structures.
- IV) Good welds not only provide functional benefits but also contribute to the aesthetics of finished products.

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

Question ID : 630680381620

Option 1 ID : 6306801487413

Option 2 ID : 6306801487414

Option 3 ID : 6306801487412

Option 4 ID : 6306801487411

Status : Answered

Chosen Option : 3

Q.58 Shaded-pole induction motors have which of the following properties?

- Ans ☒ 1. Medium starting torque
- ☒ 2. Low starting torque
- ☒ 3. High starting torque
- ☒ 4. Very high starting torque

Question ID : 630680509539

Option 1 ID : 6306801991428

Option 2 ID : 6306801991425

Option 3 ID : 6306801991426

Option 4 ID : 6306801991427

Status : Answered

Chosen Option : 2

Q.59 In a semiconductor diode, the ratio of change in the forward biased voltage across the diode to change in the current in the diode is called _____.

- Ans
- ☒ 1. DC forward resistance
 - ☒ 2. DC reverse resistance
 - ☒ 3. AC forward resistance
 - ☒ 4. AC reverse resistance

Question ID : 630680504217
Option 1 ID : 6306801970429
Option 2 ID : 6306801970431
Option 3 ID : 6306801970430
Option 4 ID : 6306801970432
Status : Answered
Chosen Option : 1

Q.60 The average power delivered to an AC series circuit is given by:

- Ans
- ☒ 1. Zero
 - ☒ 2. $I(\max) \times V(\max)$
 - ☒ 3. $I V_{\text{rms}} \times I_{\text{rms}} \cos \theta$
 - ☒ 4. $I(\max) \times V(\max) \times \sin(\theta)$

Question ID : 630680504469
Option 1 ID : 6306801971440
Option 2 ID : 6306801971437
Option 3 ID : 6306801971439
Option 4 ID : 6306801971438
Status : Answered
Chosen Option : 1

Q.61 A _____ is a failure in a power system of interconnected parts in which the failure of a part can trigger the failure of successive parts.

- Ans
- ☒ 1. cascade tripping
 - ☒ 2. brown out
 - ☒ 3. black out and cascade tripping
 - ☒ 4. black out

Question ID : 630680509435
Option 1 ID : 6306801991011
Option 2 ID : 6306801991009
Option 3 ID : 6306801991012
Option 4 ID : 6306801991010
Status : Answered
Chosen Option : 1

Q.62 In regard to estimation and costing, the accurate estimate in which the quantity of each item of work is calculated is called _____.

- Ans
- ☒ 1. approximate estimate
 - ☒ 2. supplementary estimate
 - ☒ 3. detailed estimate
 - ☒ 4. rough estimate

Question ID : 630680363628
Option 1 ID : 6306801416260
Option 2 ID : 6306801416259
Option 3 ID : 6306801416258
Option 4 ID : 6306801416257
Status : Answered
Chosen Option : 3

Q.63 A DC source of EMF E volts and internal resistance R ohms is connected to a variable load and it is adjusted such that the load absorbs maximum power from the source. The current drawn from the source is:

Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 630680334680

Option 1 ID : 6306801301980

Option 2 ID : 6306801301978

Option 3 ID : 6306801301979

Option 4 ID : 6306801301977

Status : Marked For Review

Chosen Option : 3

Q.64 Which of the following factors is NOT related to the reluctance of the magnetic circuit?

Ans

- ☒ 1. Nature of the magnetic material
- ☒ 2. Area of the cross-section of the circuit
- ☒ 3. Magnetomotive force
- ☒ 4. Length of the magnetic circuit

Question ID : 630680504229

Option 1 ID : 6306801970479

Option 2 ID : 6306801970478

Option 3 ID : 6306801970480

Option 4 ID : 6306801970477

Status : Answered

Chosen Option : 1

Q.65 Power measured using 2 wattmeter method from a three-phase balanced/unbalanced load where line voltage = V_L , Line current = I_L , Phase voltage = V_P and Phase current = I_P is given by:

Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 630680334738

Option 1 ID : 6306801302210

Option 2 ID : 6306801302212

Option 3 ID : 6306801302209

Option 4 ID : 6306801302211

Status : Answered

Chosen Option : 3

Q.66

- Ans ☒ 1. 6.67 V
☒ 2. 7.67 V
☒ 3. 8.50 V
☒ 4. 7.50 V

Question ID : 630680502517
Option 1 ID : 6306801963653
Option 2 ID : 6306801963651
Option 3 ID : 6306801963650
Option 4 ID : 6306801963652
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.67 If the field winding, armature winding are connected in parallel and the combination is connected in parallel with the supply, then this is called a _____.

- Ans ☒ 1. shunt motor
☒ 2. long shunt compound motor
☒ 3. series motor
☒ 4. short shunt compound motor

Question ID : 630680503393
Option 1 ID : 6306801967153
Option 2 ID : 6306801967156
Option 3 ID : 6306801967154
Option 4 ID : 6306801967155
Status : Answered
Chosen Option : 2

Q.68 In a parallel circuit, if 'n' resistors, each of 'R' Ω , are connected in parallel, then the total resistance is equal to _____.

- Ans ☒ 1. $(R^2)/n$
☒ 2. R/n
☒ 3. $R \times n$
☒ 4. $R + n$

Question ID : 630680504235
Option 1 ID : 6306801970504
Option 2 ID : 6306801970502
Option 3 ID : 6306801970501
Option 4 ID : 6306801970503
Status : Answered
Chosen Option : 2

Q.69 The starting torque of a slip ring induction motor is maximum when rotor resistance/phase is _____ rotor reactance/phase.

- Ans ☒ 1. equal to
☐ 2. more than
☐ 3. less than
☐ 4. not equal to

Question ID : 630680509563
Option 1 ID : 6306801991524
Option 2 ID : 6306801991521
Option 3 ID : 6306801991522
Option 4 ID : 6306801991523
Status : Answered
Chosen Option : 1

Q.70 The susceptance of the circuit given in the diagram is _____.

- Ans ☐ 1.
☒ 2.
☐ 3.
☐ 4.

Question ID : 630680328970
Option 1 ID : 6306801279835
Option 2 ID : 6306801279836
Option 3 ID : 6306801279833
Option 4 ID : 6306801279834
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.71 The energy consumed by a 5Ω resistor carrying a 20A current in 10 minutes will be _____.

- Ans ☒ 1. 1200 KJ
☐ 2. 120 KJ
☐ 3. 2000 J
☐ 4. 120 J

Question ID : 630680504205
Option 1 ID : 6306801970383
Option 2 ID : 6306801970382
Option 3 ID : 6306801970381
Option 4 ID : 6306801970384
Status : Answered
Chosen Option : 1

Q.72 Which of the following statements about equivalent circuit with core losses of single-phase motor is/are true?

1. The current drawn by the induction motor when it is not coupled to the driven equipment is called no load current of the motor.
2. The no load current produces the magnetic field in the motor.

Ans ☒ 1. Both 1 and 2 are true
☐ 2. Only 2 is true
☐ 3. Both 1 and 2 are not true
☐ 4. Only 1 is true

Question ID : 630680315926
Option 1 ID : 6306801229375
Option 2 ID : 6306801229374
Option 3 ID : 6306801229376
Option 4 ID : 6306801229373
Status : Answered
Chosen Option : 1

Q.73 In the context of magnetic circuits, if a bar magnet is kept on a paper and iron filings are sprinkled around the magnet, then the iron filings form into closed lines. These lines are called lines of _____.

Ans ☐ 1. magnetic angle
☒ 2. magnetic flux
☐ 3. magnetic motive force
☐ 4. magnetic fringing

Question ID : 630680504211
Option 1 ID : 6306801970408
Option 2 ID : 6306801970406
Option 3 ID : 6306801970407
Option 4 ID : 6306801970405
Status : Answered
Chosen Option : 2

Q.74 Choose the correct alternative regarding an electric iron.

Ans ☐ 1. The heating element is made up of Chromium.
☐ 2. The thermostat used in an electric iron makes use of a single metal strip.
☒ 3. Magnesium oxide powder is used for insulation purposes of the heating element.
☐ 4. Halogen bulbs are used in an electric iron.

Question ID : 630680504255
Option 1 ID : 6306801970581
Option 2 ID : 6306801970584
Option 3 ID : 6306801970582
Option 4 ID : 6306801970583
Status : Answered
Chosen Option : 1

Q.75 In a single-phase induction motor core loss is neglected. The exciting branch is only consisting of:

- Ans
- ☒ 1. no load resistance
 - ☒ 2. exciting reactance
 - ☒ 3. load reactance
 - ☒ 4. load resistance

Question ID : 630680315927
Option 1 ID : 6306801229377
Option 2 ID : 6306801229378
Option 3 ID : 6306801229380
Option 4 ID : 6306801229379
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.76

- Ans
- ☒ 1. 10 H
 - ☒ 2. 8 H
 - ☒ 3. 0.08 H
 - ☒ 4. 8 mH

Question ID : 630680504175
Option 1 ID : 6306801970264
Option 2 ID : 6306801970261
Option 3 ID : 6306801970263
Option 4 ID : 6306801970262
Status : Answered
Chosen Option : 4

Q.77 In an electrostatic instrument, the controlling torque can be adjusted by:

- I. Changing the spring constant
- II. Changing the length of the pointer needle
- III. Changing the distance between the plates
- IV. Changing the position of the instrument

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

Question ID : 630680509365
Option 1 ID : 6306801990749
Option 2 ID : 6306801990748
Option 3 ID : 6306801990747
Option 4 ID : 6306801990750
Status : Answered
Chosen Option : 3

Q.78 A particular consumer has loads of 200 kW, 400 kW and 300 kW, which are operating continuously. If the maximum demand of the consumer is 600 kW, find the demand factor of the system.

- Ans
- ☐ 1. 33.33%
 - ☐ 2. 42.5%
 - ☐ 3. 16.67%
 - ☒ 4. 66.67%

Question ID : 630680509421
Option 1 ID : 6306801990953
Option 2 ID : 6306801990955
Option 3 ID : 6306801990956
Option 4 ID : 6306801990954
Status : Answered
Chosen Option : 4

Q.79 In an electrical circuit, the sum of EMFs of all the sources met on the way plus the voltage drops in the resistances must be zero. This can be explained by ____.

- Ans
- ☐ 1. Laplace's law
 - ☐ 2. Kirchhoff's current law
 - ☐ 3. Ohm's law
 - ☒ 4. Kirchhoff's voltage law

Question ID : 630680504253
Option 1 ID : 6306801970575
Option 2 ID : 6306801970573
Option 3 ID : 6306801970576
Option 4 ID : 6306801970574
Status : Answered
Chosen Option : 4

Q.80 What is the drawback of a Permanent Magnet Moving Coil (PMMC) instrument?

- Ans
- ☐ 1. High power consumption
 - ☐ 2. Low torque / weight ratio
 - ☒ 3. Relatively high-cost as compared to moving iron instruments
 - ☐ 4. Absence of effective and efficient current damping

Question ID : 630680509391
Option 1 ID : 6306801990851
Option 2 ID : 6306801990853
Option 3 ID : 6306801990852
Option 4 ID : 6306801990854
Status : Answered
Chosen Option : 3

Q.81 In case of a p-n junction diode, the change in temperature due to heating _____.

- Ans
- ☒ 1. affects the entire V-I characteristics of the p-n junction diode
 - ☐ 2. affects only the forward resistance of the p-n junction diode
 - ☐ 3. causes no change in the resistance of the p-n junction diode
 - ☐ 4. affects only the reverse resistance of the p-n junction diode

Question ID : 630680502503
Option 1 ID : 6306801963596
Option 2 ID : 6306801963597
Option 3 ID : 6306801963594
Option 4 ID : 6306801963595
Status : Marked For Review
Chosen Option : 1

Q.82 In a solar power plant, the output terminals of the solar photo-voltaic array can be directly connected to the _____.

- Ans
- ☐ 1. AC bus bar
 - ☐ 2. AC load
 - ☐ 3. AC to DC converter
 - ☒ 4. DC bus bar

Question ID : 630680333495
Option 1 ID : 6306801297253
Option 2 ID : 6306801297254
Option 3 ID : 6306801297256
Option 4 ID : 6306801297255
Status : Answered
Chosen Option : 4

Q.83 Which of the following statements is correct for the radial distribution network's distributors load change?

- Ans
- ☐ 1. The consumer situated at the middle of the distributor will be subjected with serious voltage fluctuations.
 - ☐ 2. The consumer situated at very close to the distributor will be subjected with serious voltage fluctuations.
 - ☐ 3. No consumer in the distribution network will be subjected with any voltage fluctuations.
 - ☒ 4. The consumer situated at the distant end of the distributor will be subjected with serious voltage fluctuations.

Question ID : 630680503850
Option 1 ID : 6306801968963
Option 2 ID : 6306801968962
Option 3 ID : 6306801968964
Option 4 ID : 6306801968961
Status : Answered
Chosen Option : 4

Q.84 The current amplification factor for a transistor in a common base configuration is 0.75. If the emitter current is 4A, find the base current.

- Ans
- ☒ 1. 1 A
 - ☐ 2. 0 A
 - ☐ 3. 5 A
 - ☐ 4. 3 A

Question ID : 630680504188
Option 1 ID : 6306801970314
Option 2 ID : 6306801970315
Option 3 ID : 6306801970316
Option 4 ID : 6306801970313
Status : Answered
Chosen Option : 1

Q.85 Which of the following plays a vital role in the determination of sending end and receiving end voltage in ring main AC distribution scheme?

- Ans ☒ 1. Eddy current loss
☒ 2. Hysteresis loss
☒ 3. Power factor
☒ 4. Breakdown voltage of a distribution transformer oil

Question ID : 630680503842
Option 1 ID : 6306801968930
Option 2 ID : 6306801968931
Option 3 ID : 6306801968929
Option 4 ID : 6306801968932
Status : Answered
Chosen Option : 3

Q.86 To determine the voltage regulation of synchronous generators, the direct load test is suitable only for alternators with power rating:

- Ans ☒ 1. less than 2 kVA
☒ 2. more than 5 kVA
☒ 3. less than 5 kVA
☒ 4. less than 3 kVA

Question ID : 630680337164
Option 1 ID : 6306801311378
Option 2 ID : 6306801311379
Option 3 ID : 6306801311377
Option 4 ID : 6306801311380
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.87 In a transistor, the _____ region is the widest and the _____ region is the thinnest of all.

- Ans ☒ 1. base; collector
☒ 2. collector; emitter
☒ 3. collector; base
☒ 4. emitter; base

Question ID : 630680502528
Option 1 ID : 6306801963695
Option 2 ID : 6306801963697
Option 3 ID : 6306801963696
Option 4 ID : 6306801963694
Status : Answered
Chosen Option : 4

Q.88 Which of the following coefficients provides the relationship between the electric field intensity and the transmitted wave to the incident wave in the medium of origin?

- Ans ☒ 1. Fresnel reflection
☐ 2. Field reflection
☐ 3. Free space
☐ 4. Signal attenuation

Question ID : 630680333491

Option 1 ID : 6306801297239

Option 2 ID : 6306801297237

Option 3 ID : 6306801297238

Option 4 ID : 6306801297240

Status : Not Answered

Chosen Option : --

Q.89 In terms of heating effect of electric appliances, what is the percentage of chromium in the stainless steel coils used in space heaters?

- Ans ☐ 1. 15% to 19%
☐ 2. 17% to 23%
☒ 3. 13% to 26%
☐ 4. 10% to 20%

Question ID : 630680504170

Option 1 ID : 6306801970242

Option 2 ID : 6306801970244

Option 3 ID : 6306801970243

Option 4 ID : 6306801970241

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.90 Rotor current frequency = Fractional slip × _____

- Ans ☐ 1. No. of poles
☐ 2. Rotor speed
☒ 3. Supply frequency
☐ 4. EMF

Question ID : 630680509553

Option 1 ID : 6306801991481

Option 2 ID : 6306801991483

Option 3 ID : 6306801991482

Option 4 ID : 6306801991484

Status : Answered

Chosen Option : 3

Q.91 In a drive system, which requires a high starting torque, which of the following electric motors is more suitable?

- Ans ☐ 1. Double cage induction motor
- ☒ 2. DC Series motor
- ☐ 3. Synchronous motor
- ☐ 4. DC cumulative compound motor

Question ID : 630680381590

Option 1 ID : 6306801487294

Option 2 ID : 6306801487293

Option 3 ID : 6306801487292

Option 4 ID : 6306801487291

Status : Answered

Chosen Option : 2

Q.92 The ring main distribution system is preferred over radial distribution system because _____.

- Ans ☐ 1. there is no requirement of distribution transformer
- ☐ 2. there is no Ohmic loss
- ☐ 3. it always possesses unity power factor
- ☒ 4. it has fewer voltage fluctuation at consumers side

Question ID : 630680503816

Option 1 ID : 6306801968828

Option 2 ID : 6306801968827

Option 3 ID : 6306801968826

Option 4 ID : 6306801968825

Status : Answered

Chosen Option : 3

Q.93 In CRO, the measurement of time period is obtained by the product of the number of divisions occupied by one cycle and _____.

- Ans ☐ 1. Division/time
- ☐ 2. Time/cycle
- ☒ 3. Time/Division
- ☐ 4. Division/cycle

Question ID : 630680217925

Option 1 ID : 630680845607

Option 2 ID : 630680845610

Option 3 ID : 630680845609

Option 4 ID : 630680845608

Status : Answered

Chosen Option : 3

Q.94 Which of the following statements is/are correct regarding superposition theorem?

- (a) It can be used to calculate voltage, current and power.
- (b) It can be used to calculate voltage and current in a circuit containing resistor, capacitor, inductor and diode.
- (c) It can be used to calculate current in a circuit having linear elements resistor, capacitor and inductor.

Ans ☒ 1. (a), (b) and (c)

☒ 2. (a) and (b) only

☒ 3. (c) only

☒ 4. (c) and (b) only

Question ID : 630680209176

Option 1 ID : 630680810920

Option 2 ID : 630680810919

Option 3 ID : 630680810922

Option 4 ID : 630680810921

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.95 A 3-phase voltage of 220 V is applied to a balanced, delta-connected, 3-phase, purely resistive load. Calculate the ratio of the reactive power to the active power.

Ans ☒ 1. 2

☒ 2. 0

☒ 3. 1

☒ 4. 0.5

Question ID : 630680504474

Option 1 ID : 6306801971460

Option 2 ID : 6306801971457

Option 3 ID : 6306801971458

Option 4 ID : 6306801971459

Status : Answered

Chosen Option : 2

Q.96 Select the correct statement regarding coal-fired boilers.

Ans ☒ 1. Fire-tube boilers are typically used for high-pressure applications.

☒ 2. Water-tube boilers are less expensive compared to fire-tube boilers.

☒ 3. Water-tube boilers are more efficient than fire-tube boilers.

☒ 4. Fire-tube boilers have higher thermal efficiency compared to water-tube boilers.

Question ID : 630680509413

Option 1 ID : 6306801990921

Option 2 ID : 6306801990922

Option 3 ID : 6306801990924

Option 4 ID : 6306801990923

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.97 As per the diffusion principle of street lighting installations, which of the following methods is used to calculate the illumination at any point on the road surface?

- Ans ☐ 1. Light flux method
☐ 2. Watt per square metre method
☐ 3. Specular reflection method
☒ 4. Inverse-square law method

Question ID : **630680363647**
Option 1 ID : **6306801416335**
Option 2 ID : **6306801416334**
Option 3 ID : **6306801416333**
Option 4 ID : **6306801416336**
Status : **Answered**
Chosen Option : **4**

Q.98

- Ans ☐ 1. 1000 W
☒ 2. 1536 W
☐ 3. 1024 W
☐ 4. 3456 W

Question ID : **630680504187**
Option 1 ID : **6306801970312**
Option 2 ID : **6306801970309**
Option 3 ID : **6306801970311**
Option 4 ID : **6306801970310**
Status : **Answered**
Chosen Option : **2**

Q.99 The average demand of a plant is 55 MW. Find the maximum energy that can be produced if the plant is running at full load according to the operating schedule. The plant use factor is 60%.

- Ans ☐ 1. 792 MWh
☒ 2. 2200 MWh
☐ 3. 33 MWh
☐ 4. 92 MWh

Question ID : **630680509416**
Option 1 ID : **6306801990933**
Option 2 ID : **6306801990935**
Option 3 ID : **6306801990936**
Option 4 ID : **6306801990934**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.100 A lamp of 80 watt with efficiency of 80% of watt/CP is suspended, The illumination at a point on a working plane directly below the lamp is 25 lumens/m². Determine the height at which the lamp is suspended?

- Ans**  1. 1.6 meters
  2. 3.2 meters
  3. 4 meters
 4. 2 meters

Question ID : **630680389668**

Option 1 ID : **6306801519130**

Option 2 ID : **6306801519132**

Option 3 ID : **6306801519133**

Option 4 ID : **6306801519131**

Status : **Not Answered**

Chosen Option : --