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DFCCIL CBT-2

**Previous Year Paper
Executive (Electrical) 20
Dec, 2023**





Dedicated Freight Corridor Corporation of India Ltd.

A Government of India (Ministry of Railways) Enterprise

Participant ID	
Participant Name	
Test Center Name	
Test Date	20/12/2023
Test Time	4:30 PM - 6:30 PM
Subject	Executive Electrical

Section : General Knowledge

Q.1 What cultural artifact, was unveiled as a mascot during the International Museum Expo by Prime Minister Narendra Modi on International Museum Day?

Ans ☒ 1. Ajanta Caves

☒ 2. Dancing Girl of Mohenjodaro

☒ 3. Taj Mahal

☒ 4. Harappan Seal

Question ID : 630680518440

Option 1 ID : 6306802026158

Option 2 ID : 6306802026156

Option 3 ID : 6306802026159

Option 4 ID : 6306802026157

Status : Answered

Chosen Option : 2

Q.2 UNESCO has officially added Karnataka's Sacred Ensembles of Hoysalas to its prestigious World Heritage list. What are they?

Ans ☒ 1. Colonial-era Buildings

☒ 2. Ancient Temples

☒ 3. Industrial Landmarks

☒ 4. Modern Art Galleries

Question ID : 630680518439

Option 1 ID : 6306802026153

Option 2 ID : 6306802026154

Option 3 ID : 6306802026155

Option 4 ID : 6306802026152

Status : Answered

Chosen Option : 2



Q.3 The term "Republic" in the Preamble signifies ____.

- Ans
- ☒ 1. Absence of Monarchy
 - ☒ 2. Rule by the President
 - ☒ 3. Equality of all citizens
 - ☒ 4. Rule by the Majority

Question ID : 630680518441
Option 1 ID : 6306802026163
Option 2 ID : 6306802026161
Option 3 ID : 6306802026162
Option 4 ID : 6306802026160
Status : Answered
Chosen Option : 1

Q.4 Narayana Murthy is one of the co-founders of:

- Ans
- ☒ 1. TCS (Tata Consultancy Services)
 - ☒ 2. HCL Technologies
 - ☒ 3. Infosys
 - ☒ 4. Wipro

Question ID : 630680518436
Option 1 ID : 6306802026141
Option 2 ID : 6306802026143
Option 3 ID : 6306802026142
Option 4 ID : 6306802026140
Status : Answered
Chosen Option : 1

Q.5 The Green Revolution in India was primarily focused on increasing the productivity of which crop?

- Ans
- ☒ 1. Wheat
 - ☒ 2. Maize
 - ☒ 3. Sugarcane
 - ☒ 4. Pulses

Question ID : 630680518434
Option 1 ID : 6306802026132
Option 2 ID : 6306802026133
Option 3 ID : 6306802026135
Option 4 ID : 6306802026134
Status : Answered
Chosen Option : 1

Q.6 A towering 27-foot ____ statue, was built to greet G20 leaders at New Delhi's Pragati Maidan.

- Ans
- ☒ 1. Hanuman
 - ☒ 2. Buddha
 - ☒ 3. Narsimha
 - ☒ 4. Nataraja

Question ID : 630680518438
Option 1 ID : 6306802026150
Option 2 ID : 6306802026151
Option 3 ID : 6306802026148
Option 4 ID : 6306802026149
Status : Answered
Chosen Option : 4

Q.7 ____ among the following is a mammal.

- Ans
- ☒ 1. Kangaroo
 - ☒ 2. Crocodile
 - ☒ 3. Frog
 - ☒ 4. Turtle

Question ID : 630680518433
Option 1 ID : 6306802026130
Option 2 ID : 6306802026128
Option 3 ID : 6306802026131
Option 4 ID : 6306802026129
Status : Answered
Chosen Option : 1

Q.8 The Non-Cooperation Movement launched by Mahatma Gandhi in 1920 aimed at:

- Ans
- ☒ 1. Self-Government
 - ☒ 2. Economic Equality
 - ☒ 3. Crown Rule
 - ☒ 4. Social Reforms

Question ID : 630680518435
Option 1 ID : 6306802026137
Option 2 ID : 6306802026139
Option 3 ID : 6306802026136
Option 4 ID : 6306802026138
Status : Answered
Chosen Option : 3

Q.9 _____ won World Billiards Championship for 26th time in November 2023.

- Ans ☒ 1. Michael Ferreira
☒ 2. Pankaj Advani
☒ 3. Geet Sethi
☒ 4. Ronnie O'Sullivan

Question ID : 630680518442
Option 1 ID : 6306802026165
Option 2 ID : 6306802026166
Option 3 ID : 6306802026164
Option 4 ID : 6306802026167
Status : Answered
Chosen Option : 4

Q.10 "An Era of Darkness: The British Empire in India" is authored by:

- Ans ☒ 1. P. Chidambaram
☒ 2. Shashi Tharoor
☒ 3. Amartya Sen
☒ 4. Arundhati Roy

Question ID : 630680518437
Option 1 ID : 6306802026145
Option 2 ID : 6306802026147
Option 3 ID : 6306802026144
Option 4 ID : 6306802026146
Status : Answered
Chosen Option : 2

Q.11 Nominal GDP is adjusted for inflation to calculate:

- Ans ☒ 1. Real GDP
☒ 2. Gross National Income (GNI)
☒ 3. GDP per Capita
☒ 4. Gross Value Added (GVA)

Question ID : 630680518432
Option 1 ID : 6306802026124
Option 2 ID : 6306802026126
Option 3 ID : 6306802026125
Option 4 ID : 6306802026127
Status : Answered
Chosen Option : 2



Q.12 Santoor, a musical instrument played with a pair of wooden mallets, is associated with which Indian classical musician?

- Ans
- ☐ 1. Amjad Ali Khan
 - ☒ 2. Pandit Shivkumar Sharma
 - ☐ 3. Hariprasad Chaurasia
 - ☐ 4. Zakir Hussain

Question ID : 630680518431
Option 1 ID : 6306802026122
Option 2 ID : 6306802026123
Option 3 ID : 6306802026120
Option 4 ID : 6306802026121
Status : Answered
Chosen Option : 2

Section : General Aptitude/Reasoning

Q.1 In a certain code language, if PEOPLE is coded as P4E, VISIT is coded as V3T, then what will CONFLICT be coded as?

- Ans
- ☐ 1. C4T
 - ☐ 2. C2T
 - ☒ 3. C6T
 - ☐ 4. T4C

Question ID : 630680518447
Option 1 ID : 6306802026186
Option 2 ID : 6306802026187
Option 3 ID : 6306802026184
Option 4 ID : 6306802026185
Status : Answered
Chosen Option : 3

Q.2 The question consists of two statements Assertion and Reason. Choose the correct option.

Assertion (A): Sodium chloride absorbs moisture from the atmosphere when it is kept open.

Reason (R): Sodium chloride hygroscopic nature, forms a brine solution by absorbing water molecules.

- Ans
- ☐ 1. Both A and R are true but R is not the correct explanation of A
 - ☒ 2. Both A and R are true and R is the correct explanation of A
 - ☐ 3. R is true but A is false
 - ☐ 4. A is true but R is false

Question ID : 630680518449
Option 1 ID : 6306802026194
Option 2 ID : 6306802026195
Option 3 ID : 6306802026193
Option 4 ID : 6306802026192
Status : Answered
Chosen Option : 2



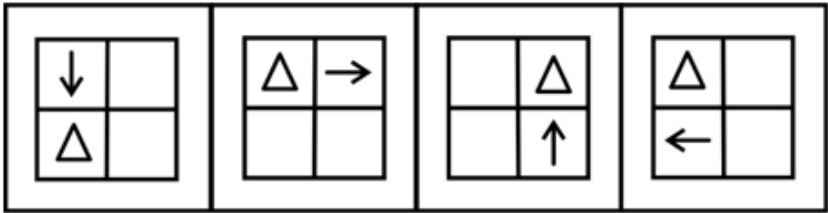
Q.3 Mia, Sia, Jia, Amy, and Tia are five sisters. Jia is younger than only two people. Tia is older than Sia but younger than Jia. Amy is not the oldest. Who is the oldest?

- Ans**
- ☒ 1. Amy
 - ☒ 2. Tia
 - ☒ 3. Jia
 - ☒ 4. Mia

Question ID : 630680518448
Option 1 ID : 6306802026189
Option 2 ID : 6306802026190
Option 3 ID : 6306802026191
Option 4 ID : 6306802026188
Status : Answered
Chosen Option : 4



Q.4 Select the wrong term in the following figure series.



Ans

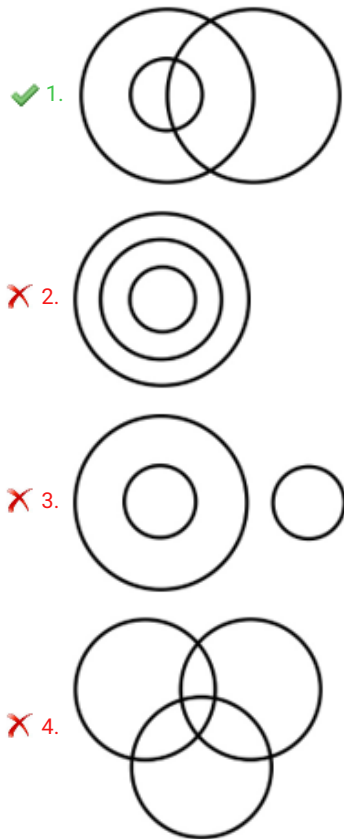
- ✖ 1.
- ✖ 2.
- ✖ 3.
- ✔ 4.

Question ID : 630680518453
Option 1 ID : 6306802026211
Option 2 ID : 6306802026208
Option 3 ID : 6306802026210
Option 4 ID : 6306802026209
Status : Answered
Chosen Option : 4

Q.5 Which of the following Venn- diagram correctly illustrates the relationship among the classes?

Men, Bachelors, Politician

Ans



Question ID : 630680518452
Option 1 ID : 6306802026204
Option 2 ID : 6306802026206
Option 3 ID : 6306802026205
Option 4 ID : 6306802026207
Status : Answered
Chosen Option : 1

Q.6 If blue is called white, white is called orange, orange is called golden, golden is called brown, then what would be the colour of the sky?

Ans

- ✗ 1. Blue
- ✗ 2. Orange
- ✗ 3. Brown
- ✓ 4. White

Question ID : 630680518446
Option 1 ID : 6306802026183
Option 2 ID : 6306802026180
Option 3 ID : 6306802026182
Option 4 ID : 6306802026181
Status : Answered
Chosen Option : 4

Q.7 Select the wrong term in the given series.

A, E, I, M, P, U, Y

Ans ☒ 1. M

☒ 2. E

☒ 3. P

☒ 4. Y

Question ID : 630680518443

Option 1 ID : 6306802026170

Option 2 ID : 6306802026171

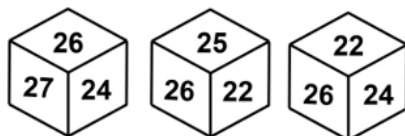
Option 3 ID : 6306802026169

Option 4 ID : 6306802026168

Status : Answered

Chosen Option : 3

Q.8 Three different positions of the same dice are given below. Find the number opposite of 22.



Ans ☒ 1. 27

☒ 2. 25

☒ 3. 26

☒ 4. 24

Question ID : 630680518454

Option 1 ID : 6306802026212

Option 2 ID : 6306802026214

Option 3 ID : 6306802026215

Option 4 ID : 6306802026213

Status : Answered

Chosen Option : 1

Q.9 Which two numbers should be interchanged to make the given equation correct?

$$24 - 34 \times 6 + 2 + 55 = 15$$

Ans ☒ 1. 6 and 15

☒ 2. 24 and 2

☒ 3. 15 and 34

☒ 4. 55 and 24

Question ID : 630680518451

Option 1 ID : 6306802026201

Option 2 ID : 6306802026200

Option 3 ID : 6306802026202

Option 4 ID : 6306802026203

Status : Answered

Chosen Option : 3



Q.10 Select the option related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.

PANT : NAPT :: MOVE : ?

- Ans**
- ☒ 1. VVME
 - ☒ 2. VOME
 - ☒ 3. OOME
 - ☒ 4. OVME

Question ID : 630680518445

Option 1 ID : 6306802026176

Option 2 ID : 6306802026178

Option 3 ID : 6306802026177

Option 4 ID : 6306802026179

Status : Answered

Chosen Option : 2

Q.11 Select the option that is related to the third word in the same way as the second word is related to the first word.

Kathmandu : Nepal :: Colombo : ?

- Ans**
- ☒ 1. Sri lanka
 - ☒ 2. China
 - ☒ 3. Bhutan
 - ☒ 4. Myanmar

Question ID : 630680518444

Option 1 ID : 6306802026173

Option 2 ID : 6306802026172

Option 3 ID : 6306802026174

Option 4 ID : 6306802026175

Status : Answered

Chosen Option : 1

Q.12 Select the option that is related to the third number in the same way as the second number is related to the first number:

59 : 649 :: 44 : ?

- Ans**
- ☒ 1. 660
 - ☒ 2. 572
 - ☒ 3. 484
 - ☒ 4. 396

Question ID : 630680518450

Option 1 ID : 6306802026199

Option 2 ID : 6306802026197

Option 3 ID : 6306802026196

Option 4 ID : 6306802026198

Status : Answered

Chosen Option : 3

Section : Domain Knowledge

Q.1 Which of the following is NOT the type of DC power transmission system?

- Ans
- ☒ 1. DC single wire system
 - ☐ 2. DC two wire system with midpoint earthed
 - ☐ 3. DC two wire system
 - ☐ 4. DC three wire system

Question ID : 630680518541
Option 1 ID : 6306802026560
Option 2 ID : 6306802026561
Option 3 ID : 6306802026563
Option 4 ID : 6306802026562
Status : Answered
Chosen Option : 4

Q.2 Which of the following is the function of motor starters?

- I. Permit automatic or remote control when required.
- II. Start and stop the motor.

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

Question ID : 630680518514
Option 1 ID : 6306802026454
Option 2 ID : 6306802026453
Option 3 ID : 6306802026455
Option 4 ID : 6306802026452
Status : Answered
Chosen Option : 1

Q.3 Which of the following is NOT the main requirement of the insulating materials used for cables?

- Ans
- ☐ 1. High dielectric strength
 - ☐ 2. Low coefficient of thermal expansion
 - ☐ 3. High insulation resistance
 - ☒ 4. High permittivity

Question ID : 630680518485
Option 1 ID : 6306802026337
Option 2 ID : 6306802026339
Option 3 ID : 6306802026336
Option 4 ID : 6306802026338
Status : Answered
Chosen Option : 2



Q.4 Determine the decimal equivalent of $(0.10101)_2$?

Ans ☒ 1. $(0.65625)_{10}$

☐ 2. $(53)_{10}$

☐ 3. $(45.65625)_{10}$

☐ 4. $(9.3125)_{10}$

Question ID : 630680518549
Option 1 ID : 6306802026592
Option 2 ID : 6306802026594
Option 3 ID : 6306802026595
Option 4 ID : 6306802026593
Status : Answered
Chosen Option : 1

Q.5 The transmission efficiency _____ with the increase in transmission voltage.

Ans ☐ 1. constant

☐ 2. exponentially decreases

☒ 3. Increases

☐ 4. decreases

Question ID : 630680518476
Option 1 ID : 6306802026302
Option 2 ID : 6306802026303
Option 3 ID : 6306802026301
Option 4 ID : 6306802026300
Status : Answered
Chosen Option : 3

Q.6 In the context of underground cable a _____ sheath of lead or alloy is provided around the insulation to protect it against ingress of moisture, gases or other damaging liquids in the soil and atmosphere.

Ans ☐ 1. insulator

☐ 2. non metallic

☒ 3. metallic

☐ 4. organic

Question ID : 630680518484
Option 1 ID : 6306802026335
Option 2 ID : 6306802026333
Option 3 ID : 6306802026332
Option 4 ID : 6306802026334
Status : Answered
Chosen Option : 3



Q.7 _____ insulators are of egg shape, also called guy insulators.

- Ans
- ☒ 1. Post
 - ☒ 2. Shackle
 - ☒ 3. Stay
 - ☒ 4. Core and link type suspension

Question ID : 630680518479
Option 1 ID : 6306802026313
Option 2 ID : 6306802026314
Option 3 ID : 6306802026312
Option 4 ID : 6306802026315
Status : Answered
Chosen Option : 3

Q.8 What is the binary equivalent of $(15)_{10}$?

- Ans
- ☒ 1. 1001
 - ☒ 2. 1110
 - ☒ 3. 1010
 - ☒ 4. 1111

Question ID : 630680518523
Option 1 ID : 6306802026491
Option 2 ID : 6306802026489
Option 3 ID : 6306802026490
Option 4 ID : 6306802026488
Status : Answered
Chosen Option : 4

Q.9 The transmission system of an area is called the _____.

- Ans
- ☒ 1. grid
 - ☒ 2. nod
 - ☒ 3. junction
 - ☒ 4. block

Question ID : 630680518473
Option 1 ID : 6306802026288
Option 2 ID : 6306802026291
Option 3 ID : 6306802026289
Option 4 ID : 6306802026290
Status : Answered
Chosen Option : 1

Q.10 In a _____ two or more radial feeders originating from the same or different secondary substations are laid on different routes of load areas.

- Ans**
- ☒ 1. loop feeder system
 - ☐ 2. parallel feeder system
 - ☐ 3. interconnected network system
 - ☐ 4. radial feeder system

Question ID : 630680518491
Option 1 ID : 6306802026361
Option 2 ID : 6306802026362
Option 3 ID : 6306802026363
Option 4 ID : 6306802026360
Status : Answered
Chosen Option : 3

Q.11 A potentiometer is a simple voltage divider with _____ terminals.

- Ans**
- ☐ 1. two
 - ☒ 2. three
 - ☐ 3. four
 - ☐ 4. one

Question ID : 630680518466
Option 1 ID : 6306802026261
Option 2 ID : 6306802026262
Option 3 ID : 6306802026263
Option 4 ID : 6306802026260
Status : Answered
Chosen Option : 1

Q.12 A _____ is also known as a chopper.

- Ans**
- ☐ 1. Diode rectifier
 - ☐ 2. DC-AC Converter
 - ☐ 3. AC-DC Converter
 - ☒ 4. DC-DC Converter

Question ID : 630680518547
Option 1 ID : 6306802026586
Option 2 ID : 6306802026587
Option 3 ID : 6306802026584
Option 4 ID : 6306802026585
Status : Answered
Chosen Option : 2

Q.13 Semi-conductor materials like germanium crystals with controlled doping can be used for measurement of cryogenic temperatures especially _____.

- Ans
- ☐ 1. above 100K
 - ☒ 2. below 25K
 - ☐ 3. below 100K
 - ☐ 4. above 50K

Question ID : **630680518533**
Option 1 ID : **6306802026531**
Option 2 ID : **6306802026528**
Option 3 ID : **6306802026530**
Option 4 ID : **6306802026529**
Status : **Answered**
Chosen Option : **2**

Q.14 Which of the following statement is correct regarding synchro?

I. A synchro is an electromagnetic transducer commonly used to convert angular position of a shaft into an electric signal.

II. It is commercially known as a selsyn or an autosyn.

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

Question ID : **630680518472**
Option 1 ID : **6306802026287**
Option 2 ID : **6306802026284**
Option 3 ID : **6306802026285**
Option 4 ID : **6306802026286**
Status : **Answered**
Chosen Option : **4**

Q.15 Which of the following method is used for measurement of high resistance?

- Ans
- ☐ 1. Ammeter-voltmeter method
 - ☐ 2. Wheatstone bridge method
 - ☐ 3. Substitution method
 - ☒ 4. Direct deflection method

Question ID : **630680518532**
Option 1 ID : **6306802026527**
Option 2 ID : **6306802026526**
Option 3 ID : **6306802026525**
Option 4 ID : **6306802026524**
Status : **Answered**
Chosen Option : **4**

Q.16 Which of the following theorem is dual of Thevenin's theorem?

- Ans
- ✓ 1. Norton's theorem
 - ✗ 2. Reciprocity theorem
 - ✗ 3. Millman's theorem
 - ✗ 4. Superposition theorem

Question ID : 630680518458
Option 1 ID : 6306802026228
Option 2 ID : 6306802026231
Option 3 ID : 6306802026229
Option 4 ID : 6306802026230
Status : Answered
Chosen Option : 1

Q.17 Choose the correct statement regarding synchronous motor.

- I. It is not a self-starting motor.
- II. The speed of this motor is quite constant on every load.

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

Question ID : 630680518509
Option 1 ID : 6306802026434
Option 2 ID : 6306802026432
Option 3 ID : 6306802026435
Option 4 ID : 6306802026433
Status : Answered
Chosen Option : 1

Q.18 A _____ is a combinational circuit that selects binary information from one of many input lines and directs it to a single output line.

- Ans
- ✓ 1. digital multiplexer
 - ✗ 2. full subtractor
 - ✗ 3. half adder
 - ✗ 4. encoder

Question ID : 630680518525
Option 1 ID : 6306802026496
Option 2 ID : 6306802026498
Option 3 ID : 6306802026497
Option 4 ID : 6306802026499
Status : Answered
Chosen Option : 4

Q.19 _____ are fixed to the yoke in between the main poles of a DC machine.

- Ans
- ☐ 1. Brushes
 - ☐ 2. Shaft
 - ☒ 3. Interpoles
 - ☐ 4. Commutator

Question ID : 630680518504
Option 1 ID : 6306802026413
Option 2 ID : 6306802026414
Option 3 ID : 6306802026412
Option 4 ID : 6306802026415
Status : Answered
Chosen Option : 1

Q.20 Which of the following statements is correct regarding corona?

- I. In Extra high voltage AC transmission lines the visible glow of corona is mostly uniform about both the conductors.
- II. In High voltage direct current transmission the glow is uniform and brighter about the positive conductor but spotty about the negative conductor.

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

Question ID : 630680518544
Option 1 ID : 6306802026575
Option 2 ID : 6306802026572
Option 3 ID : 6306802026573
Option 4 ID : 6306802026574
Status : Answered
Chosen Option : 4

Q.21 Which of the following is NOT the basic element of closed-loop control system?

- Ans
- ☐ 1. Feedback element
 - ☐ 2. Controlled system
 - ☒ 3. Analyzer
 - ☐ 4. Controller

Question ID : 630680518463
Option 1 ID : 6306802026248
Option 2 ID : 6306802026250
Option 3 ID : 6306802026251
Option 4 ID : 6306802026249
Status : Answered
Chosen Option : 4

Q.22 _____ is prepared from wood pulp rags or plant fibres by a suitable chemical process.

- Ans
- ☐ 1. Polythene
 - ☐ 2. Rubber
 - ☐ 3. Vulcanized India Rubber
 - ☒ 4. Impregnated paper

Question ID : 630680518486
Option 1 ID : 6306802026343
Option 2 ID : 6306802026341
Option 3 ID : 6306802026342
Option 4 ID : 6306802026340
Status : Answered
Chosen Option : 4

Q.23 जब समान वोल्टता पर भरण एक वितरक के दोनों छोरों को एक साथ लाया जाता है, तो ऐसे वितरक को _____ के रूप में जाना जाता है।

- Ans
- ☐ 1. दोनों छोरों पर भरण वितरक
 - ☒ 2. रिंग मुख्य वितरक
 - ☐ 3. केंद्र पर भरण वितरक
 - ☐ 4. एक छोर पर भरण वितरक

Question ID : 630680518490
Option 1 ID : 6306802026357
Option 2 ID : 6306802026359
Option 3 ID : 6306802026358
Option 4 ID : 6306802026356
Status : Answered
Chosen Option : 1

Q.24 Which of the following statement is correct about controller component "actuators"?

- I. These are devices whose output is mechanical motion.
- II. The actuators are characterised by power output and speed-torque relationship to match the load.

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

Question ID : 630680518465
Option 1 ID : 6306802026258
Option 2 ID : 6306802026257
Option 3 ID : 6306802026259
Option 4 ID : 6306802026256
Status : Answered
Chosen Option : 1



Q.25 A cylindrical-rotor synchronous machine is characterized by _____ core length and _____ diameter so as to limit the centrifugal forces developed in the high-speed rotor.

Ans ✓ 1. long, small

✗ 2. long, long

✗ 3. small, small

✗ 4. small, long

Question ID : 630680518507

Option 1 ID : 6306802026425

Option 2 ID : 6306802026426

Option 3 ID : 6306802026427

Option 4 ID : 6306802026424

Status : Answered

Chosen Option : 1

Q.26 Which of the following is NOT the property of Repulsion motor?

Ans ✓ 1.

At starting the torque developed and the current taken does not depend upon brush position

✗ 2. Speed variation is obtained by shifting of brushes

✗ 3. These have a high starting torque with low starting current

✗ 4.

For a given brush setting, characteristics are very similar to those of a DC series motor

Question ID : 630680518513

Option 1 ID : 6306802026450

Option 2 ID : 6306802026448

Option 3 ID : 6306802026449

Option 4 ID : 6306802026451

Status : Answered

Chosen Option : 1

Q.27 Which of the following identifies inductance?

Ans ✗ 1. Ohm's law

✗ 2. Coulomb's law

✓ 3. Faraday's law

✗ 4. Newton's law

Question ID : 630680518469

Option 1 ID : 6306802026273

Option 2 ID : 6306802026274

Option 3 ID : 6306802026272

Option 4 ID : 6306802026275

Status : Answered

Chosen Option : 3



Q.28 Which of the following is NOT the type of transistor amplifier?

- Ans
- ☒ 1. Common base amplifier
 - ☒ 2. Common collector amplifier
 - ☒ 3. Common rectifier amplifier
 - ☒ 4. Common emitter amplifier

Question ID : 630680518517
Option 1 ID : 6306802026464
Option 2 ID : 6306802026466
Option 3 ID : 6306802026467
Option 4 ID : 6306802026465
Status : Answered
Chosen Option : 3

Q.29 The open-circuit test on transformer give which of the following information?

- I. Core loss at rated voltage and frequency
- II. The shunt branch parameters of equivalent circuit

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

Question ID : 630680518502
Option 1 ID : 6306802026406
Option 2 ID : 6306802026407
Option 3 ID : 6306802026404
Option 4 ID : 6306802026405
Status : Answered
Chosen Option : 1

Q.30 According to Maxwell's equation which of the following is correct?

- Ans
- ☒ 1. Magnetic flux is discontinuous
 - ☒ 2. Magnetic flux is continuous
 - ☒ 3. Electric flux is zero
 - ☒ 4. Magnetic flux is zero

Question ID : 630680518470
Option 1 ID : 6306802026278
Option 2 ID : 6306802026277
Option 3 ID : 6306802026279
Option 4 ID : 6306802026276
Status : Answered
Chosen Option : 1

Q.31 D'Alembert's principle is slightly modified form of _____.

- Ans
- ☐ 1. Newton's first law of motion
 - ☐ 2. Newton's third law of motion
 - ☐ 3. Ampere's law
 - ☒ 4. Newton's second law of motion

Question ID : 630680518467

Option 1 ID : 6306802026264

Option 2 ID : 6306802026266

Option 3 ID : 6306802026267

Option 4 ID : 6306802026265

Status : Answered

Chosen Option : 3

Q.32 Which of the following statement is correct regarding the type of DC machines?

I. DC series machine has field winding in series with armature circuit.

II. DC shunt machine has field winding across the armature circuit.

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

Question ID : 630680518497

Option 1 ID : 6306802026385

Option 2 ID : 6306802026386

Option 3 ID : 6306802026384

Option 4 ID : 6306802026387

Status : Answered

Chosen Option : 2

Q.33 _____ cables are used for operating voltage up to 11000V.

- Ans
- ☒ 1. High voltage
 - ☐ 2. Super tension
 - ☐ 3. Extra high tension
 - ☐ 4. Extra super voltage

Question ID : 630680518487

Option 1 ID : 6306802026344

Option 2 ID : 6306802026345

Option 3 ID : 6306802026346

Option 4 ID : 6306802026347

Status : Answered

Chosen Option : 1

Q.34 Which of the following is correct about bundled conductors?

I. A bundled conductor is a conductor made up of two or more conductors.

II. The bundled conductor lines transmit bulk power with reduced losses, thereby giving increased transmission efficiency.

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

Question ID : 630680518482
Option 1 ID : 6306802026324
Option 2 ID : 6306802026326
Option 3 ID : 6306802026327
Option 4 ID : 6306802026325

Status : Answered
Chosen Option : 2

Q.35 In the context of transformer iron losses are minimized by using thin sheets of _____.

- Ans**
- ☐ 1. aluminium
 - ☐ 2. low silicon steel
 - ☐ 3. germanium
 - ☒ 4. high silicon steel

Question ID : 630680518546
Option 1 ID : 6306802026582
Option 2 ID : 6306802026581
Option 3 ID : 6306802026583
Option 4 ID : 6306802026580

Status : Answered
Chosen Option : 4

Q.36 According to Boolean Theorems which of the following is correct?

I. $X.(Y + Z) = (X.Y) + (X.Z)$

II. $X + X = X$

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

Question ID : 630680518539
Option 1 ID : 6306802026555
Option 2 ID : 6306802026554
Option 3 ID : 6306802026552
Option 4 ID : 6306802026553
Status : Answered
Chosen Option : 2

Q.37 Which of the following is NOT true regarding Induction motor?

- Ans
- ☒ 1. No exciter is required
 - ☒ 2. Not Self-started
 - ☒ 3. Speed can be controlled to small units
 - ☒ 4. The motor operates at only lagging power factor

Question ID : 630680518510
Option 1 ID : 6306802026439
Option 2 ID : 6306802026436
Option 3 ID : 6306802026438
Option 4 ID : 6306802026437
Status : Answered
Chosen Option : 4



Q.38 Which of the following pair is correct?

I. Intrinsic semi-conductors – These are pure semi-conductors, without any impurities added to them.

II. Extrinsic semi-conductors – When a small amount of impurity is added to a pure semi-conductor.

Ans ☒ 1. Both I and II

☐ 2. Only I

☐ 3. Neither I nor II

☐ 4. Only II

Question ID : 630680518518

Option 1 ID : 6306802026470

Option 2 ID : 6306802026468

Option 3 ID : 6306802026471

Option 4 ID : 6306802026469

Status : Answered

Chosen Option : 1

Q.39 The skin effect is _____ with stranded conductors than with solid conductors.

Ans ☒ 1. smaller

☐ 2. constant

☐ 3. equal

☐ 4. larger

Question ID : 630680518495

Option 1 ID : 6306802026376

Option 2 ID : 6306802026379

Option 3 ID : 6306802026378

Option 4 ID : 6306802026377

Status : Answered

Chosen Option : 1

Q.40 Which of the following is the base unit?

Ans ☐ 1. Frequency

☐ 2. Velocity

☐ 3. Force

☒ 4. Time

Question ID : 630680518529

Option 1 ID : 6306802026512

Option 2 ID : 6306802026513

Option 3 ID : 6306802026514

Option 4 ID : 6306802026515

Status : Answered

Chosen Option : 4

Q.41 गॉस का नियम _____ का एक महत्वपूर्ण परिणाम है।

- Ans
- ☐ 1. ओम का नियम
 - ☐ 2. एम्पीयर का नियम
 - ☐ 3. किरचॉफ का नियम
 - ☒ 4. कूलॉम का नियम

Question ID : 630680518456
Option 1 ID : 6306802026221
Option 2 ID : 6306802026223
Option 3 ID : 6306802026222
Option 4 ID : 6306802026220
Status : Answered
Chosen Option : 4

Q.42 Long transmission lines have length above _____ and line voltage above _____.

- Ans
- ☐ 1. 200 km, 80 kV
 - ☒ 2. 200 km, 100 kV
 - ☐ 3. 80 km, 80 kV
 - ☐ 4. 100 km, 80 kV

Question ID : 630680518483
Option 1 ID : 6306802026330
Option 2 ID : 6306802026331
Option 3 ID : 6306802026328
Option 4 ID : 6306802026329
Status : Answered
Chosen Option : 2

Q.43 The power source for Pneumatic flapper valve is the _____.

- Ans
- ☒ 1. supply of air at constant pressure
 - ☐ 2. supply of air at variable pressure
 - ☐ 3. supply of electric current with variable load
 - ☐ 4. supply of electric current with constant load

Question ID : 630680518471
Option 1 ID : 6306802026280
Option 2 ID : 6306802026281
Option 3 ID : 6306802026283
Option 4 ID : 6306802026282
Status : Answered
Chosen Option : 1

Q.44 What is the decimal equivalent of $(1100)_2$?

- Ans
- ☐ 1. 14
 - ☒ 2. 12
 - ☐ 3. 20
 - ☐ 4. 16

Question ID : 630680518520
Option 1 ID : 6306802026477
Option 2 ID : 6306802026476
Option 3 ID : 6306802026479
Option 4 ID : 6306802026478
Status : Answered
Chosen Option : 2

Q.45 The inductance and therefore the current distribution in a conductor is also affected by the presence of other conductors in its vicinity. This is known as _____.

- Ans
- ☐ 1. line inductance
 - ☐ 2. line resistance
 - ☒ 3. proximity effect
 - ☐ 4. skin effect

Question ID : 630680518496
Option 1 ID : 6306802026382
Option 2 ID : 6306802026383
Option 3 ID : 6306802026381
Option 4 ID : 6306802026380
Status : Answered
Chosen Option : 3

Q.46 Which of the following is NOT the property of an overhead line insulator?

- Ans
- ☐ 1. High mechanical strength
 - ☒ 2. Low insulation resistance
 - ☐ 3. Ability to withstand large temperature variations
 - ☐ 4. High relative permittivity

Question ID : 630680518477
Option 1 ID : 6306802026304
Option 2 ID : 6306802026306
Option 3 ID : 6306802026307
Option 4 ID : 6306802026305
Status : Answered
Chosen Option : 2

Q.47 When a polynomial $q(s)$ is Hurwitz, which of the following condition is satisfied?

I. $q(s)$ is real when 's' is real.

II. The roots of $q(s)$ have real parts which are zero or negative.

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

Question ID : 630680518468
Option 1 ID : 6306802026268
Option 2 ID : 6306802026269
Option 3 ID : 6306802026271
Option 4 ID : 6306802026270
Status : Answered
Chosen Option : 4

Q.48 A distributor is subject to the legal requirement that the voltage at the consumer's terminals should be maintained within _____ of the declared voltage.

- Ans
- ☐ 1. $\pm 10\%$
 - ☐ 2. $\pm 15\%$
 - ☒ 3. $\pm 6\%$
 - ☐ 4. $\pm 8\%$

Question ID : 630680518474
Option 1 ID : 6306802026294
Option 2 ID : 6306802026295
Option 3 ID : 6306802026292
Option 4 ID : 6306802026293
Status : Answered
Chosen Option : 3

Q.49 _____ allow partial current to flow through them.

- Ans
- ☐ 1. Resistors
 - ☐ 2. Conductors
 - ☐ 3. Insulators
 - ☒ 4. Semi-conductors

Question ID : 630680518515
Option 1 ID : 6306802026459
Option 2 ID : 6306802026457
Option 3 ID : 6306802026458
Option 4 ID : 6306802026456
Status : Answered
Chosen Option : 4

Q.50 Which of the following factor is NOT responsible for affecting Corona?

- Ans ☒ 1. Insulator
☒ 2. Atmosphere
☒ 3. Conductor
☒ 4. Line voltage

Question ID : 630680518481
Option 1 ID : 6306802026321
Option 2 ID : 6306802026320
Option 3 ID : 6306802026322
Option 4 ID : 6306802026323
Status : Answered
Chosen Option : 1

Q.51 A combinational circuit that performs the addition of _____ bits is called as half-adder.

- Ans ☒ 1. two
☒ 2. four
☒ 3. one
☒ 4. three

Question ID : 630680518521
Option 1 ID : 6306802026481
Option 2 ID : 6306802026483
Option 3 ID : 6306802026480
Option 4 ID : 6306802026482
Status : Answered
Chosen Option : 1

Q.52 Which of the following statement is correct regarding semi-conductor?

- I. Semi-conductors allow partial current to flow through them.
II. In semi-conductors the conduction and the valance bands are separated by a very narrow gap.

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

Question ID : 630680518542
Option 1 ID : 6306802026565
Option 2 ID : 6306802026566
Option 3 ID : 6306802026564
Option 4 ID : 6306802026567
Status : Answered
Chosen Option : 2

Q.53 Which of the following statement is correct regarding transformer?

I. A transformer is not an electromechanical converter.

II. It usually steps up or steps down electrical energy from one voltage level to another voltage level.

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

Question ID : 630680518498
Option 1 ID : 6306802026389
Option 2 ID : 6306802026388
Option 3 ID : 6306802026391
Option 4 ID : 6306802026390
Status : Answered
Chosen Option : 4

Q.54 Which of the following is NOT the method of laying of underground cables?

- Ans**
- ☒ 1. Direct laying
 - ☒ 2. Solid system
 - ☒ 3. Liquid system
 - ☒ 4. Draw-in-system

Question ID : 630680518489
Option 1 ID : 6306802026352
Option 2 ID : 6306802026354
Option 3 ID : 6306802026355
Option 4 ID : 6306802026353
Status : Answered
Chosen Option : 3

Q.55 In _____ the field poles may be on stator or rotor.

- Ans**
- ☒ 1. transformers
 - ☒ 2. induction machines
 - ☒ 3. AC commutator machines
 - ☒ 4. synchronous machines

Question ID : 630680518499
Option 1 ID : 6306802026393
Option 2 ID : 6306802026394
Option 3 ID : 6306802026395
Option 4 ID : 6306802026392
Status : Answered
Chosen Option : 4

Q.56 Which of the following is the advantage of HVDC (High voltage direct current) transmission?

- I. An HVDC line can be built in stages.
- II. Lesser dielectric power loss and higher current carrying capacity.

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

Question ID : 630680518494
Option 1 ID : 6306802026372
Option 2 ID : 6306802026373
Option 3 ID : 6306802026375
Option 4 ID : 6306802026374
Status : Answered
Chosen Option : 4

Q.57 Which of the following statement is correct regarding Null type of instruments?

- I. Null type of instruments are more accurate than deflection type instruments.
- II. Null type instruments can be highly sensitive as compared with deflection type instruments.

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

Question ID : 630680518530
Option 1 ID : 6306802026519
Option 2 ID : 6306802026518
Option 3 ID : 6306802026516
Option 4 ID : 6306802026517
Status : Answered
Chosen Option : 2

Q.58 The _____ of a linear time invariant system is defined to be the ratio of the Laplace transform of the output variable to the Laplace transform of the input variable under the assumption that all initial conditions are zero.

Ans ☒ 1. coriolis acceleration coefficient
☒ 2. transfer function
☒ 3. Lagrangian function
☒ 4. coupling inertia

Question ID : 630680518462
Option 1 ID : 6306802026246
Option 2 ID : 6306802026245
Option 3 ID : 6306802026247
Option 4 ID : 6306802026244
Status : Answered
Chosen Option : 1

Q.59 The operation of _____ is based upon Seebeck effect.

- Ans
- ☐ 1. semi-conductor thermometer
 - ☐ 2. galvanometer
 - ☒ 3. thermocouple
 - ☐ 4. thermistor

Question ID : 630680518534
Option 1 ID : 6306802026534
Option 2 ID : 6306802026535
Option 3 ID : 6306802026532
Option 4 ID : 6306802026533
Status : Answered
Chosen Option : 3

Q.60 What is the octal equivalent of $(15)_{10}$?

- Ans
- ☐ 1. 20
 - ☐ 2. 15
 - ☐ 3. 16
 - ☒ 4. 17

Question ID : 630680518526
Option 1 ID : 6306802026503
Option 2 ID : 6306802026500
Option 3 ID : 6306802026501
Option 4 ID : 6306802026502
Status : Answered
Chosen Option : 4

Q.61 A circuit that converts a pulsating output from a rectifier into a very steady DC level is known as _____.

- Ans
- ☐ 1. Diode
 - ☐ 2. Transistor
 - ☒ 3. Filter
 - ☐ 4. Rectifier

Question ID : 630680518519
Option 1 ID : 6306802026474
Option 2 ID : 6306802026475
Option 3 ID : 6306802026472
Option 4 ID : 6306802026473
Status : Answered
Chosen Option : 4

Q.62 Which of the following statements is true regarding Universal motor?

I. Stator winding is in series with rotor winding.

II. This motor is designed to work on both AC and DC supply.

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

Question ID : 630680518512
Option 1 ID : 6306802026446
Option 2 ID : 6306802026447
Option 3 ID : 6306802026444
Option 4 ID : 6306802026445
Status : Answered
Chosen Option : 3

Q.63 Which of the following gate is known as building block in digital circuitry?

I. NAND

II. NOR

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

Question ID : 630680518540
Option 1 ID : 6306802026558
Option 2 ID : 6306802026559
Option 3 ID : 6306802026556
Option 4 ID : 6306802026557
Status : Answered
Chosen Option : 1

Q.64 Which of the following statement is true regarding insulator material Porcelain?

I. It is mechanically stronger than glass.

II. It gives less trouble from leakage and is less susceptible to temperature variations and its surface is not affected by dirt deposits.

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

Question ID : 630680518478
Option 1 ID : 6306802026311
Option 2 ID : 6306802026310
Option 3 ID : 6306802026308
Option 4 ID : 6306802026309
Status : Answered
Chosen Option : 2

Q.65 Which of the following is the application of control theory in medical field?

I. Temperature regulation

II. Respiratory and cardiovascular control

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

Question ID : 630680518460
Option 1 ID : 6306802026238
Option 2 ID : 6306802026239
Option 3 ID : 6306802026236
Option 4 ID : 6306802026237
Status : Answered
Chosen Option : 1

Q.66 _____ can act both as a converter or rectifier.

- Ans**
- ☒ 1. Yoke
 - ☒ 2. Commutator
 - ☒ 3. Interpoles
 - ☒ 4. Armature core

Question ID : 630680518505
Option 1 ID : 6306802026418
Option 2 ID : 6306802026416
Option 3 ID : 6306802026417
Option 4 ID : 6306802026419
Status : Answered
Chosen Option : 2

Q.67 Which of the following statement is correct in the context of Transmission Lines?

I. A line with two parallel wires is a common form and is known as an open-wire line with air as dielectric.

II. Two wire lines are also used for radio frequency transmission but only at fairly low radio frequencies.

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

Question ID : 630680518459
Option 1 ID : 6306802026232
Option 2 ID : 6306802026235
Option 3 ID : 6306802026234
Option 4 ID : 6306802026233
Status : Answered
Chosen Option : 3

Q.68 Which of the following is NOT the advantage of oil-filled cables?

- Ans
- ☒ 1. Detection of fault is easy
 - ☒ 2. Less perfect impregnation
 - ☒ 3. Impregnation possible after sheathing
 - ☒ 4. More maximum permissible stresses

Question ID : 630680518488
Option 1 ID : 6306802026351
Option 2 ID : 6306802026348
Option 3 ID : 6306802026349
Option 4 ID : 6306802026350
Status : Answered
Chosen Option : 3

Q.69 Pico is equivalent to _____.

- Ans
- ☒ 1. 10^{24}
 - ☒ 2. 10^{-12}
 - ☒ 3. 10^{-24}
 - ☒ 4. 10^{12}

Question ID : 630680518528
Option 1 ID : 6306802026510
Option 2 ID : 6306802026508
Option 3 ID : 6306802026511
Option 4 ID : 6306802026509
Status : Answered
Chosen Option : 2

Q.70 Which of the following statement is true regarding register?

I. A register is a group of memory elements which stores a binary word and it may modify the stored word in a particular fashion as is desired by the application in which it is used.

II. It is capable of shifting the stored binary word a step or more towards left or right.

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

Question ID : 630680518550
Option 1 ID : 6306802026597
Option 2 ID : 6306802026599
Option 3 ID : 6306802026598
Option 4 ID : 6306802026596
Status : Answered
Chosen Option : 3

Q.71 Gear trains are used in control systems to attain the _____ matching of motor to load.

- Ans
- ☒ 1. constant
 - ☒ 2. mechanical
 - ☒ 3. electrical
 - ☒ 4. proportional

Question ID : 630680518461
Option 1 ID : 6306802026243
Option 2 ID : 6306802026240
Option 3 ID : 6306802026241
Option 4 ID : 6306802026242
Status : Answered
Chosen Option : 4

Q.72 Which of the following brushes are used more frequently in all DC machines?

- Ans
- ☒ 1. Copper graphite
 - ☒ 2. Carbon
 - ☒ 3. Nonmetal graphite
 - ☒ 4. Electrographite

Question ID : 630680518506
Option 1 ID : 6306802026420
Option 2 ID : 6306802026421
Option 3 ID : 6306802026423
Option 4 ID : 6306802026422
Status : Answered
Chosen Option : 4



Q.73 A decoder is a combinational circuit that converts binary information from n input lines to a maximum of _____ unique output lines.

- Ans**
- ☒ 1. 2
 - ☒ 2. 2^n
 - ☒ 3. 4
 - ☒ 4. 4^n

Question ID : 630680518524
Option 1 ID : 6306802026492
Option 2 ID : 6306802026493
Option 3 ID : 6306802026494
Option 4 ID : 6306802026495
Status : Answered
Chosen Option : 2

Q.74 Which of the following statement is correct regarding Wheatstone Bridge?

- I. It is used in measurement of medium resistance.
- II. It operates upon a null indication principle.

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

Question ID : 630680518536
Option 1 ID : 6306802026540
Option 2 ID : 6306802026541
Option 3 ID : 6306802026542
Option 4 ID : 6306802026543
Status : Answered
Chosen Option : 3

Q.75 Which of the following is the application of measurement systems?

I. Monitoring of processes and operations.

II. Control of processes and operations.

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

Question ID : 630680518531
Option 1 ID : 6306802026520
Option 2 ID : 6306802026522
Option 3 ID : 6306802026521
Option 4 ID : 6306802026523
Status : Answered
Chosen Option : 2

Q.76 According to Coulomb's law the force of repulsion existing between two point charges is _____.

- Ans
- ☐ 1. constant
 - ☒ 2. directly proportional to the magnitude of the charges
 - ☐ 3. inversely proportional to the magnitude of the charges
 - ☐ 4. zero

Question ID : 630680518455
Option 1 ID : 6306802026218
Option 2 ID : 6306802026216
Option 3 ID : 6306802026217
Option 4 ID : 6306802026219
Status : Answered
Chosen Option : 2

Q.77 Which of the following is the advantage of adopting high voltage for transmission?

I. Line current is reduced which results in reduction of line losses.

II. The size of the conductor is reduced which further reduces the cost of the supporting structure materials.

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

Question ID : 630680518475
Option 1 ID : 6306802026297
Option 2 ID : 6306802026299
Option 3 ID : 6306802026298
Option 4 ID : 6306802026296
Status : Answered
Chosen Option : 3

Q.78 Which of the following method is NOT used for measurement of low resistance?

- Ans
- ☒ 1. Ammeter voltmeter method
 - ☒ 2. Ohmmeter method
 - ☒ 3. Potentiometer method
 - ☒ 4. Kelvin's double bridge method

Question ID : 630680518537
Option 1 ID : 6306802026544
Option 2 ID : 6306802026547
Option 3 ID : 6306802026546
Option 4 ID : 6306802026545
Status : Answered
Chosen Option : 2

Q.79 Which of the following pair is correct regarding transformer loss?

I. Stray load loss – Leakage fields present in a transformer induce eddy currents in conductors, tanks, bolts etc and these eddy currents give rise to stray load loss.

II. Dielectric loss – This loss occurs in the insulating materials.

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

Question ID : 630680518503
Option 1 ID : 6306802026411
Option 2 ID : 6306802026410
Option 3 ID : 6306802026408
Option 4 ID : 6306802026409
Status : Answered
Chosen Option : 2

Q.80 The skin effect depends upon which of the following?

I. Type of material.

II. Diameter of conductor.

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

Question ID : 630680518545
Option 1 ID : 6306802026579
Option 2 ID : 6306802026577
Option 3 ID : 6306802026578
Option 4 ID : 6306802026576
Status : Answered
Chosen Option : 3

Q.81 Which of the following statement is true regarding Full-Subtractor?

I. A full-subtractor is a combinational circuit that performs a subtraction between two bits, taking into account that a 1 may have been borrowed by a lower significant stage.

II. This circuit has three inputs and two outputs.

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

Question ID : 630680518522
Option 1 ID : 6306802026485
Option 2 ID : 6306802026484
Option 3 ID : 6306802026486
Option 4 ID : 6306802026487
Status : Answered
Chosen Option : 3

Q.82 Which of the following is NOT the type of cable fault?

- Ans**
- ☐ 1. Open-circuit fault
 - ☐ 2. Ground or earth fault
 - ☐ 3. Cross or short-circuit fault
 - ☒ 4. Ring circuit fault

Question ID : 630680518492
Option 1 ID : 6306802026366
Option 2 ID : 6306802026364
Option 3 ID : 6306802026365
Option 4 ID : 6306802026367
Status : Answered
Chosen Option : 4

Q.83 An Ideal Operational Amplifier have _____ input impedance.

- Ans**
- ☐ 1. a finite
 - ☐ 2. a reverse
 - ☐ 3. a zero
 - ☒ 4. an infinite

Question ID : 630680518548
Option 1 ID : 6306802026588
Option 2 ID : 6306802026591
Option 3 ID : 6306802026590
Option 4 ID : 6306802026589
Status : Answered
Chosen Option : 4

Q.84 Which of the following statement is correct regarding auto-transformer?

I. A transformer in which a part of the winding is common to both the primary and secondary circuits.

II. The short-circuit current in an auto-transformer is higher than that in a corresponding two winding transformer.

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

Question ID : 630680518508
Option 1 ID : 6306802026429
Option 2 ID : 6306802026431
Option 3 ID : 6306802026428
Option 4 ID : 6306802026430
Status : Answered
Chosen Option : 4

Q.85 Which of the following is NOT the effect of Corona?

- Ans
- ☒ 1. The charging current under corona condition decreases because the corona induces harmonic currents.
 - ☒ 2. It produces ozone which can be readily detected by its characteristic odour
 - ☒ 3. It produces a hissing noise
 - ☒ 4. A violet glow is observed around the conductor

Question ID : 630680518480
Option 1 ID : 6306802026319
Option 2 ID : 6306802026318
Option 3 ID : 6306802026317
Option 4 ID : 6306802026316
Status : Answered
Chosen Option : 1

Q.86 1 watt = _____ ergs per second.

- Ans
- ☒ 1. 10^7
 - ☒ 2. 10
 - ☒ 3. 10^{-7}
 - ☒ 4. 100

Question ID : 630680518527
Option 1 ID : 6306802026505
Option 2 ID : 6306802026506
Option 3 ID : 6306802026504
Option 4 ID : 6306802026507
Status : Answered
Chosen Option : 1

Q.87 For power frequency range of 25 to 400Hz, transformers are constructed with _____ thick silicon steel laminations.

- Ans
- ☐ 1. 1 mm
 - ☒ 2. 0.35 mm
 - ☐ 3. 2 mm
 - ☐ 4. 4 mm

Question ID : 630680518501
Option 1 ID : 6306802026401
Option 2 ID : 6306802026400
Option 3 ID : 6306802026402
Option 4 ID : 6306802026403
Status : Answered
Chosen Option : 2

Q.88 Which of the following is the problem associated with EHV (Extra high voltage) transmission?

- I. Corona loss and radio interference
- II. Heavy supporting structures and erection difficulties

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

Question ID : 630680518493
Option 1 ID : 6306802026371
Option 2 ID : 6306802026368
Option 3 ID : 6306802026369
Option 4 ID : 6306802026370
Status : Answered
Chosen Option : 4

Q.89 A junction transistor in which a layer of n-type semi-conductor is sandwiched between _____ layers of p-type semi-conductor is known as p.n.p transistor.

- Ans
- ☐ 1. one
 - ☐ 2. three
 - ☐ 3. four
 - ☒ 4. two

Question ID : 630680518516
Option 1 ID : 6306802026460
Option 2 ID : 6306802026462
Option 3 ID : 6306802026463
Option 4 ID : 6306802026461
Status : Answered
Chosen Option : 4

Q.90 Instrumental errors arises due to which of the following reason?

I. Due to misuse of the instruments.

II. Due to loading effects of instruments.

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

Question ID : 630680518538
Option 1 ID : 6306802026548
Option 2 ID : 6306802026551
Option 3 ID : 6306802026549
Option 4 ID : 6306802026550
Status : Answered
Chosen Option : 4

Q.91 Choose the correct theorem on behalf of the following statement.

“An addition of the partial responses of sources considered one at a time will give the total response in a linear network.”

- Ans
- ☐ 1. Millman's theorem
 - ☐ 2. Norton's theorem
 - ☒ 3. Superposition theorem
 - ☐ 4. Thevenin's theorem

Question ID : 630680518457
Option 1 ID : 6306802026225
Option 2 ID : 6306802026227
Option 3 ID : 6306802026224
Option 4 ID : 6306802026226
Status : Answered
Chosen Option : 1

Q.92 For reducing the core losses nearly all transformers have their magnetic core made from _____.

- Ans
- ☐ 1. aluminium
 - ☐ 2. copper
 - ☐ 3. silver
 - ☒ 4. cold rolled grain-oriented sheet steel

Question ID : 630680518500
Option 1 ID : 6306802026397
Option 2 ID : 6306802026398
Option 3 ID : 6306802026399
Option 4 ID : 6306802026396
Status : Answered
Chosen Option : 4

Q.93 As the single phase motors are not self-started, it cannot be started by which of the following methods?

- Ans
- ☒ 1. Using rectifier
 - ☐ 2. By repulsion
 - ☐ 3. By shading the poles
 - ☐ 4. Using capacitors

Question ID : 630680518511
Option 1 ID : 6306802026443
Option 2 ID : 6306802026441
Option 3 ID : 6306802026442
Option 4 ID : 6306802026440
Status : Answered
Chosen Option : 1

Q.94 _____ that are in physical contact with each other form a thermocouple.

- Ans
- ☐ 1. A pair of two dissimilar non-metals
 - ☐ 2. A pair of two similar metals
 - ☒ 3. A pair of two dissimilar metals
 - ☐ 4. A pair of two similar non-metals

Question ID : 630680518535
Option 1 ID : 6306802026538
Option 2 ID : 6306802026536
Option 3 ID : 6306802026537
Option 4 ID : 6306802026539
Status : Answered
Chosen Option : 3

Q.95 In the context of a closed-loop control system the _____ compares the feedback signal obtained from the plant output with the input signal.

- Ans
- ☐ 1. analyzer
 - ☒ 2. error detector
 - ☐ 3. controlled system
 - ☐ 4. comparator

Question ID : 630680518464
Option 1 ID : 6306802026255
Option 2 ID : 6306802026253
Option 3 ID : 6306802026254
Option 4 ID : 6306802026252
Status : Answered
Chosen Option : 4

Q.96 Which of the following is NOT the advantage of adopting high voltage for transmission?

Ans ☒ 1.

With the increase in transmission voltage , line current is reduced

☒ 2.

With the increase in transmission voltage reduction in line losses results in higher efficiency

☒ 3.

With the increase in transmission voltage the size of conductor is increased

☒ 4.

Due to low current at high transmission voltage , the voltage drop in the lines is low

Question ID : 630680518543

Option 1 ID : 6306802026568

Option 2 ID : 6306802026569

Option 3 ID : 6306802026570

Option 4 ID : 6306802026571

Status : Answered

Chosen Option : 3

