

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

Roll Number	
Candidate Name	
Venue Name	
Exam Date	04/12/2023
Exam Time	9:00 AM - 11:00 AM
Subject	Junior Engineer 2023 Paper II Electrical

Section : **General Engineering Electrical**

**Q.1** Which of the following theorems is the dual of Norton's theorem?

- Ans**
- 1. Reciprocity theorem
  - 2. Thevenin's theorem
  - 3. Superposition theorem
  - 4. Maximum power transfer theorem

Question ID : 264330184575  
Option 1 ID : 264330723000  
Option 2 ID : 264330723003  
Option 3 ID : 264330723001  
Option 4 ID : 264330723002  
Status : **Answered**  
Chosen Option : 2

**Q.2** In a single-phase series RL circuit,  $X_L = 15 \Omega$  and  $R = 20 \Omega$ . Find the impedance of the circuit.

- Ans**
- 1.  $15 \Omega$
  - 2.  $25 \Omega$
  - 3.  $20 \Omega$
  - 4.  $35 \Omega$

Question ID : 264330184587  
Option 1 ID : 264330723048  
Option 2 ID : 264330723050  
Option 3 ID : 264330723049  
Option 4 ID : 264330723051  
Status : **Answered**  
Chosen Option : 2

**Q.3** Which field control method for a DC series motor involves shunting a portion of motor current around the series field to reduce the field flux and increase the speed of the motor?

- Ans**
- 1. Tapped field control
  - 2. Rheostatic control method
  - 3. Armature control method
  - 4. Field diverter method

Question ID : 264330184522  
Option 1 ID : 264330722790  
Option 2 ID : 264330722788  
Option 3 ID : 264330722789  
Option 4 ID : 264330722791  
Status : Answered  
Chosen Option : 4

**Q.4** In a multi-plate capacitor, there are a total of nine plates in parallel. This arrangement is equivalent to \_\_\_\_\_ capacitors in parallel.

- Ans**
- 1. eight
  - 2. ten
  - 3. four
  - 4. nine

Question ID : 264330184569  
Option 1 ID : 264330722978  
Option 2 ID : 264330722976  
Option 3 ID : 264330722979  
Option 4 ID : 264330722977  
Status : Answered  
Chosen Option : 1

**Q.5** Which component is responsible for generating the time scale or time reference in a Cathode Ray Oscilloscope (CRO)?

- Ans**
- 1. CRT
  - 2. Time-base generator
  - 3. Vertical amplifier
  - 4. Delay line

Question ID : 264330184453  
Option 1 ID : 264330722515  
Option 2 ID : 264330722514  
Option 3 ID : 264330722512  
Option 4 ID : 264330722513  
Status : Answered  
Chosen Option : 2

**Q.6** Why are energy-efficient solutions such as LED lighting and programmable thermostats incorporated into commercial electrical installations?

**Ans**  1.

To reduce electricity consumption and lower operating costs

2. To raise operating costs

3. To improve safety measures

4. To increase electricity consumption

Question ID : 264330184554

Option 1 ID : 264330722919

Option 2 ID : 264330722917

Option 3 ID : 264330722918

Option 4 ID : 264330722916

Status : Answered

Chosen Option : 1

**Q.7** Which of the following is NOT an application of a synchronous motor?

**Ans**  1. Servo drives

2. High speed compressor

3. Dot matrix printer

4. Main line traction

Question ID : 264330184605

Option 1 ID : 264330723120

Option 2 ID : 264330723121

Option 3 ID : 264330723123

Option 4 ID : 264330723122

Status : Answered

Chosen Option : 4

**Q.8** Which part of a transistor is heavily doped and emits majority carriers, either electrons or holes?

**Ans**  1. Collector

2. Base

3. Emitter

4. Base and emitter

Question ID : 264330184563

Option 1 ID : 264330722952

Option 2 ID : 264330722953

Option 3 ID : 264330722954

Option 4 ID : 264330722955

Status : Answered

Chosen Option : 3

**Q.9** Which type of transformer uses a ring or doughnut-shaped core material, offering low leakage inductance and high inductance and Q factors?

- Ans**
- 1. Ferrite core transformer
  - 2. Air core transformer
  - 3. Toroidal core transformer
  - 4. Iron core transformer

Question ID : 264330184519  
Option 1 ID : 264330722778  
Option 2 ID : 264330722776  
Option 3 ID : 264330722777  
Option 4 ID : 264330722779  
Status : Answered  
Chosen Option : 3

**Q.10** Which component of a commercial electrical installation is responsible for protection against electrical overloads and short circuits?

- Ans**
- 1. Power sockets
  - 2. Electrical panels or switchgear
  - 3. Lighting systems
  - 4. HVAC systems

Question ID : 264330184553  
Option 1 ID : 264330722913  
Option 2 ID : 264330722914  
Option 3 ID : 264330722912  
Option 4 ID : 264330722915  
Status : Answered  
Chosen Option : 2

**Q.11** With reference to tenders, which of the following statements is INCORRECT?

- Ans**
- 1. The earnest money is never returned to the unsuccessful contractors after disposal of the tender.
  - 2. Normally, the tender offering the lowest rates is accepted.
  - 3. The sealed tenders are invited publicly through news-papers.
  - 4. Tenders are invited on a tender form prescribed by the purchase department.

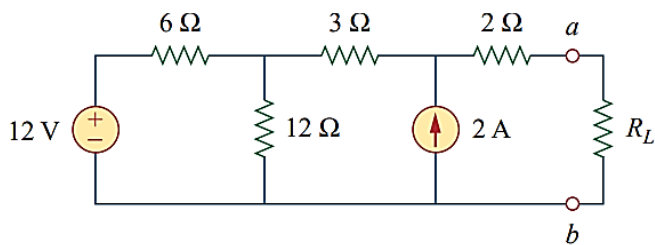
Question ID : 264330184630  
Option 1 ID : 264330723222  
Option 2 ID : 264330723223  
Option 3 ID : 264330723221  
Option 4 ID : 264330723220  
Status : Answered  
Chosen Option : 1

Q.12 Which of the following materials is rarely used as dielectric material in power cables?

- Ans  1. Solid  
 2. Liquid  
 3. Gases  
 4. Compound

Question ID : 264330184624  
 Option 1 ID : 264330723197  
 Option 2 ID : 264330723198  
 Option 3 ID : 264330723199  
 Option 4 ID : 264330723196  
 Status : Answered  
 Chosen Option : 3

Q.13 Find the value of Load resistance( $R_L$ ) for maximum power transfer in the following circuit.



- Ans  1. 22 Ω  
 2. 11 Ω  
 3. 33 Ω  
 4. 9 Ω

Question ID : 264330184577  
 Option 1 ID : 264330723009  
 Option 2 ID : 264330723010  
 Option 3 ID : 264330723008  
 Option 4 ID : 264330723011  
 Status : Answered  
 Chosen Option : 4

**Q.14** What is the difference between transmission lines and distribution lines in an electrical power system?

**Ans** ✓ 1.

Transmission lines carry electricity from generating stations to substations, while distribution lines transport power to end consumers.

✗ 2.

Transmission lines operate at lower voltages than distribution lines.

✗ 3.

Transmission lines use single-phase systems, while distribution lines use three-phase systems.

✗ 4.

Transmission lines have lower current carrying capacity compared to distribution lines.

Question ID : 264330184475

Option 1 ID : 264330722602

Option 2 ID : 264330722603

Option 3 ID : 264330722600

Option 4 ID : 264330722601

Status : Answered

Chosen Option : 1

**Q.15** Which type of single-phase motor is known as a 'resistance-start' motor?

**Ans** ✗ 1. Universal motor

✓ 2. Split-phase motor

✗ 3. Permanent-split capacitor motor

✗ 4. Shaded-pole motor

Question ID : 264330184463

Option 1 ID : 264330722554

Option 2 ID : 264330722552

Option 3 ID : 264330722555

Option 4 ID : 264330722553

Status : Answered

Chosen Option : 2

**Q.16** What is the main design criterion for distributors in an electrical power transmission system?

**Ans** ✗ 1. Frequency

✓ 2. Voltage drop

✗ 3. Current-carrying capacity

✗ 4. Length

Question ID : 264330184549

Option 1 ID : 264330722899

Option 2 ID : 264330722896

Option 3 ID : 264330722897

Option 4 ID : 264330722898

Status : Answered

Chosen Option : 2

**Q.17** What will be the self-inductance of the coil if an EMF of 10 V is induced in it when the current flowing through it changes at the rate of 5 A/sec?

- Ans**
- 1. 5 H
  - 2. 2 H
  - 3. 1 H
  - 4. 10 H

Question ID : 264330184580  
Option 1 ID : 264330723021  
Option 2 ID : 264330723022  
Option 3 ID : 264330723023  
Option 4 ID : 264330723020  
Status : Answered  
Chosen Option : 2

**Q.18** What is one of the functions of circuit breakers in a substation?

- Ans**
- 1. Voltage regulation
  - 2. Power generation
  - 3. Switching equipment control
  - 4. Interrupting short-circuits and overload currents

Question ID : 264330184540  
Option 1 ID : 264330722860  
Option 2 ID : 264330722862  
Option 3 ID : 264330722863  
Option 4 ID : 264330722861  
Status : Answered  
Chosen Option : 4

**Q.19** What is the result of the diffusion of electrons and holes when p-type and n-type semiconductor materials are joined to form a diode junction?

- Ans**
- 1. Depletion of majority charge carriers in the region near the junction
  - 2. Generation of an electric field that inhibits electron movement
  - 3. Formation of positive ions in the p-type material and negative ions in the n-type material
  - 4. Creation of a layer of holes near the junction in the p-type material

Question ID : 264330184488  
Option 1 ID : 264330722654  
Option 2 ID : 264330722655  
Option 3 ID : 264330722652  
Option 4 ID : 264330722653  
Status : Answered  
Chosen Option : 1

**Q.20** Which type of work is done by an autotransformer?

- Ans**
- 1. Phase shifting primary to secondary
  - 2. Isolation between primary to secondary
  - 3. Adjustment of voltage in output side
  - 4. Multiple windings

Question ID : 264330184525  
Option 1 ID : 264330722802  
Option 2 ID : 264330722800  
Option 3 ID : 264330722801  
Option 4 ID : 264330722803  
Status : Answered  
Chosen Option : 3

**Q.21** If a current of 2 A flowing through one coil produces flux linkage of 5 Wb-turn in the other coil, then what will be the mutual inductance between the two coils?

- Ans**
- 1. 7.5 H
  - 2. 2.5 H
  - 3. 5 H
  - 4. 10 H

Question ID : 264330184581  
Option 1 ID : 264330723025  
Option 2 ID : 264330723027  
Option 3 ID : 264330723026  
Option 4 ID : 264330723024  
Status : Answered  
Chosen Option : 2

**Q.22** If the voltage across a 5  $\mu$ F capacitor is 24 V at  $t = 6$  ms, what is the energy stored in the capacitor at that time?

- Ans**
- 1. 120 mJ
  - 2. 720 mJ
  - 3. 360  $\mu$ J
  - 4. 1440  $\mu$ J

Question ID : 264330184436  
Option 1 ID : 264330722444  
Option 2 ID : 264330722446  
Option 3 ID : 264330722445  
Option 4 ID : 264330722447  
Status : Answered  
Chosen Option : 4

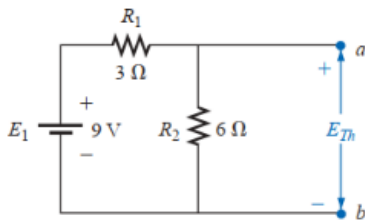


**Q.23** In circuit analysis, what is the term used to describe the closed path in a circuit where you start at a point and continue in the same direction, noting the direction of all voltage drops, and return to the same starting point?

- Ans**
- 1. Loop
  - 2. Branch
  - 3. Node
  - 4. Path

Question ID : 264330184494  
 Option 1 ID : 264330722679  
 Option 2 ID : 264330722677  
 Option 3 ID : 264330722676  
 Option 4 ID : 264330722678  
 Status : Answered  
 Chosen Option : 1

**Q.24** What is the Thevenin's voltage across the a-b terminal in the given circuit?



- Ans**
- 1. 15 V
  - 2. 6 V
  - 3. 3 V
  - 4. 9 V

Question ID : 264330184439  
 Option 1 ID : 264330722459  
 Option 2 ID : 264330722457  
 Option 3 ID : 264330722456  
 Option 4 ID : 264330722458  
 Status : Answered  
 Chosen Option : 2

**Q.25** Usually, the expenditure on supervision charges is \_\_\_\_\_ of the total cost.

- Ans**
- 1. 5% to 7%
  - 2. 2% to 4%
  - 3. 1% to 1.5%
  - 4. 8% to 10%

Question ID : 264330184629  
 Option 1 ID : 264330723217  
 Option 2 ID : 264330723218  
 Option 3 ID : 264330723219  
 Option 4 ID : 264330723216  
 Status : Answered  
 Chosen Option : 1

**Q.26** With reference to 1-phase transformers, match the transformer tests in column A with the purpose of the tests in column B.

Column A	Column B
A. Short circuit test	I. Wattmeter reads the core losses
B. Sumpner's test	II. Wattmeter reads the full load copper losses
C. Open circuit test	III. Determines maximum temperature rise

- Ans**
- ✔ 1. A-II, B-III, C-I
  - ✘ 2. A-III, B-I, C-II
  - ✘ 3. A-II, B-I, C-III
  - ✘ 4. A-I, B-II, C-III

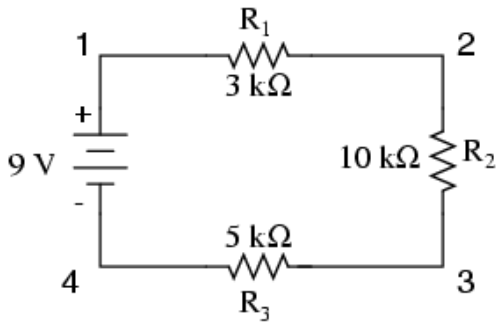
Question ID : 264330184601  
 Option 1 ID : 264330723106  
 Option 2 ID : 264330723107  
 Option 3 ID : 264330723105  
 Option 4 ID : 264330723104  
 Status : Answered  
 Chosen Option : 1

**Q.27** What is the primary purpose of control rods in a nuclear reactor?

- Ans**
- ✔ 1. To absorb excess neutrons
  - ✘ 2. To cool the reactor core
  - ✘ 3. To transfer heat to the secondary circuit
  - ✘ 4. To generate electricity

Question ID : 264330184544  
 Option 1 ID : 264330722877  
 Option 2 ID : 264330722876  
 Option 3 ID : 264330722878  
 Option 4 ID : 264330722879  
 Status : Answered  
 Chosen Option : 1

Q.28 Find the voltage across  $R_3$  in the following circuit.



- Ans
- 1. 1.5 V
  - 2. 4.5 V
  - 3. 7.5 V
  - 4. 2.5 V

Question ID : 264330184572

Option 1 ID : 264330722988

Option 2 ID : 264330722990

Option 3 ID : 264330722991

Option 4 ID : 264330722989

Status : Answered

Chosen Option : 4

Q.29 Match the oscillator circuits in column A with their respective characteristics in column B.

Column A	Column B
A. Hartley oscillator	I. Two stage RC coupled amplifier
B. Crystal oscillator	II. LC tuned circuit
C. Wien bridge oscillator	III. Greater stability

- Ans
- 1. A-I, B-III, C-II
  - 2. A-II, B-I, C-III
  - 3. A-II, B-III, C-I
  - 4. A-III, B-I, C-II

Question ID : 264330184593

Option 1 ID : 264330723075

Option 2 ID : 264330723074

Option 3 ID : 264330723072

Option 4 ID : 264330723073

Status : Answered

Chosen Option : 3

**Q.30** Which method of electrical heating involves passing electrical energy through a heating element to generate heat, which is then transferred to the substance to be heated?

- Ans**
- 1. Induction heating
  - 2. Direct arc heating
  - 3. Resistance heating
  - 4. Power frequency heating

Question ID : 264330184485  
Option 1 ID : 264330722641  
Option 2 ID : 264330722642  
Option 3 ID : 264330722643  
Option 4 ID : 264330722640  
Status : Answered  
Chosen Option : 3

**Q.31** What is the purpose of outgoing feeders in a distribution substation?

- Ans**
- 1. To protect the substation from faults
  - 2. To control the voltage of the substation
  - 3. To carry power from the substation to distribution transformers
  - 4. To generate electrical power

Question ID : 264330184551  
Option 1 ID : 264330722905  
Option 2 ID : 264330722907  
Option 3 ID : 264330722904  
Option 4 ID : 264330722906  
Status : Answered  
Chosen Option : 3

**Q.32** Which of the following statements is correct regarding the doping levels of the emitter, base and collector regions in a bipolar junction transistor (BJT)?

- Ans**
- 1. The emitter is moderately doped, the base is heavily doped and the collector is lightly doped.
  - 2. The emitter is lightly doped, the base is heavily doped and the collector is moderately doped.
  - 3. The emitter is heavily doped, the base is lightly doped and the collector is moderately doped.
  - 4. The doping levels of the emitter, base and collector are all the same.

Question ID : 264330184490  
Option 1 ID : 264330722662  
Option 2 ID : 264330722660  
Option 3 ID : 264330722661  
Option 4 ID : 264330722663  
Status : Answered  
Chosen Option : 3

**Q.33** What is the purpose of a neutral conductor in a star-connected three-phase system, and how does it help in maintaining balance?

**Ans**  1.

The neutral conductor is used for overcurrent protection, and it helps in phase separation.

2.

The neutral conductor is used for phase shifting, and it helps in generating higher voltage.

3.

The neutral conductor is used for grounding the system, and it helps in equalising phase voltages.

4.

The neutral conductor is used to increase the voltage between two phases, and it assists in load balancing.

Question ID : 264330184452

Option 1 ID : 264330722511

Option 2 ID : 264330722510

Option 3 ID : 264330722508

Option 4 ID : 264330722509

Status : **Marked For Review**

Chosen Option : 3

**Q.34** Which of the following statements is INCORRECT for parallel resonance?

**Ans**  1. At resonance, the impedance will be maximum.

2.

At resonance, the line current will be in phase with the applied voltage.

3. At resonance, the current will be minimum.

4. At resonance, the power factor will be zero.

Question ID : 264330184589

Option 1 ID : 264330723056

Option 2 ID : 264330723058

Option 3 ID : 264330723057

Option 4 ID : 264330723059

Status : **Answered**

Chosen Option : 4

**Q.35** An RLC series circuit has  $R = 2 \Omega$ ,  $C = 20 \mu\text{F}$  and the inductance is adjusted such that the voltage across the resistance is maximum. If the applied voltage is 10 V at a frequency of 1000 rad/sec, then find the value of inductance L.

**Ans**  1. 0.005 H

2. 0.25 H

3. 0.025 H

4. 0.05 H

Question ID : 264330184590

Option 1 ID : 264330723061

Option 2 ID : 264330723062

Option 3 ID : 264330723063

Option 4 ID : 264330723060

Status : **Answered**

Chosen Option : 4

Q.36 What is the function of the 'control system' component in a load drive system?

- Ans
- 1. To convert electrical energy into mechanical energy
  - 2. To measure the temperature of the load
  - 3. To regulate the operation of the load drive
  - 4. To provide electrical power to the load

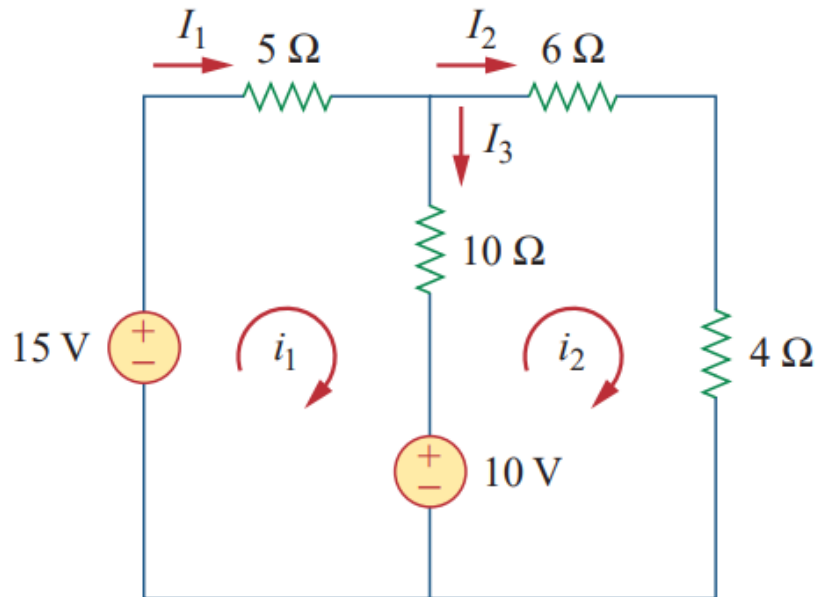
Question ID : 264330184560  
Option 1 ID : 264330722941  
Option 2 ID : 264330722943  
Option 3 ID : 264330722942  
Option 4 ID : 264330722940  
Status : Answered  
Chosen Option : 3

Q.37 Which of the following is a limitation of Millman's theorem?

- Ans
- 1. Applicable if the circuit has only one independent source
  - 2. Applicable if the circuit has no independent sources
  - 3. Applicable if the circuit has no dependent sources
  - 4. Applicable if the circuit has no resistance between the independent sources

Question ID : 264330184499  
Option 1 ID : 264330722699  
Option 2 ID : 264330722696  
Option 3 ID : 264330722698  
Option 4 ID : 264330722697  
Status : Answered  
Chosen Option : 3

Q.38 Find the current  $I_2$  in the following circuit.



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

Question ID : 264330184574

Option 1 ID : 264330722997

Option 2 ID : 264330722998

Option 3 ID : 264330722999

Option 4 ID : 264330722996

Status : Answered

Chosen Option : 4

Q.39 Which type of electromagnetic radiation is primarily used in infrared heating to heat surfaces?

- Ans
- 1. Infrared radiation
  - 2. Microwave radiation
  - 3. X-rays
  - 4. Ultraviolet radiation

Question ID : 264330184557

Option 1 ID : 264330722930

Option 2 ID : 264330722931

Option 3 ID : 264330722929

Option 4 ID : 264330722928

Status : Answered

Chosen Option : 1

**Q.40** What is the primary function of the Wind Turbine Generator (WTG) in a wind power system?

- Ans**
- 1. To control the speed of the wind turbine
  - 2. To generate usable electricity from wind energy
  - 3. To store mechanical rotational power
  - 4. To regulate the voltage in the electrical grid

Question ID : 264330184542  
Option 1 ID : 264330722869  
Option 2 ID : 264330722870  
Option 3 ID : 264330722868  
Option 4 ID : 264330722871  
Status : Answered  
Chosen Option : 2

**Q.41** The susceptibility of the paramagnetic material is:

- Ans**
- 1. positive and large
  - 2. positive and small
  - 3. negative and small
  - 4. negative and large

Question ID : 264330184507  
Option 1 ID : 264330722730  
Option 2 ID : 264330722731  
Option 3 ID : 264330722729  
Option 4 ID : 264330722728  
Status : Answered  
Chosen Option : 2

**Q.42** In a balanced star connection, the ratio of the magnitude of the line voltage to the magnitude of the phase voltage is

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

Question ID : 264330184586  
Option 1 ID : 264330723045  
Option 2 ID : 264330723044  
Option 3 ID : 264330723047  
Option 4 ID : 264330723046  
Status : Answered  
Chosen Option : 1



**Q.43** What type of substation is used for power factor correction, metering and control of the wind farm?

- Ans**  1. Collector substation  
 2. Converter substation  
 3. Relay substation  
 4. Distribution substation

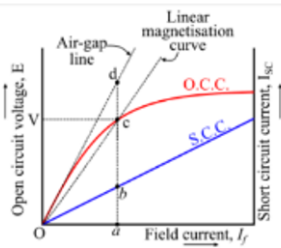
Question ID : 264330184556  
Option 1 ID : 264330722925  
Option 2 ID : 264330722926  
Option 3 ID : 264330722927  
Option 4 ID : 264330722924  
Status : Answered  
Chosen Option : 3

**Q.44** What type of substation is responsible for transferring power from the transmission system to the distribution system of an area?

- Ans**  1. Distribution substation  
 2. Collector substation  
 3. Converter substation  
 4. Relay substation

Question ID : 264330184484  
Option 1 ID : 264330722636  
Option 2 ID : 264330722637  
Option 3 ID : 264330722638  
Option 4 ID : 264330722639  
Status : Answered  
Chosen Option : 1

**Q.45** What is the unsaturated synchronous reactance ( $X_{su}$ ) in an alternator if the armature resistance is neglected according to the following graph?



- Ans**
- 1.  $X_{su} = E_{ad} I_{ab}$
  - 2.  $X_{su} = E_{ad} / I_{ab}$
  - 3.  $X_{su} = R_a + jZ_{su}$
  - 4.  $X_{su} = 1 / (R_a + jX_{su})$

Question ID : 264330184534

Option 1 ID : 264330722838

Option 2 ID : 264330722836

Option 3 ID : 264330722837

Option 4 ID : 264330722839

Status : Answered

Chosen Option : 2

**Q.46** What is the purpose of the trigger circuit in a Cathode Ray Oscilloscope (CRO)?

- Ans**
- 1. To control the power supply circuit
  - 2. To generate the electron beam
  - 3. To synchronise the horizontal and vertical deflections
  - 4. To amplify the input signal

Question ID : 264330184513

Option 1 ID : 264330722755

Option 2 ID : 264330722752

Option 3 ID : 264330722754

Option 4 ID : 264330722753

Status : Answered

Chosen Option : 3

**Q.47** Identify whether the following statements are true or false.

1. Capacitor start motors are more costly than split-phase induction motors.
2. In two-value capacitor motors, the two capacitors are connected in parallel at the starting.

- Ans**
- 1. Both the statements are true
  - 2. Statement 1 is true and statement 2 is false
  - 3. Both the statements are false
  - 4. Statement 1 is false and statement 2 is true

Question ID : 264330184606  
Option 1 ID : 264330723124  
Option 2 ID : 264330723125  
Option 3 ID : 264330723127  
Option 4 ID : 264330723126  
Status : Answered  
Chosen Option : 1

**Q.48** With reference to PMMC instruments, which of the following statements are correct?

- I. For PMMC instruments, the scale is not uniform.
- II. PMMC instruments can be used for AC as well as DC quantities.
- III. In PMMC instruments, power consumption is low.
- IV. PMMC instruments offer a high torque/weight ratio.

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

Question ID : 264330184592  
Option 1 ID : 264330723069  
Option 2 ID : 264330723071  
Option 3 ID : 264330723070  
Option 4 ID : 264330723068  
Status : Answered  
Chosen Option : 1

**Q.49** Two coils having self-inductance of 6 H and 24 H, respectively, are magnetically coupled. Find the maximum possible value of mutual inductance.

- Ans**
- 1. 6 H
  - 2. 24 H
  - 3. 12 H
  - 4. 18 H

Question ID : 264330184582  
Option 1 ID : 264330723028  
Option 2 ID : 264330723031  
Option 3 ID : 264330723029  
Option 4 ID : 264330723030  
Status : Answered  
Chosen Option : 3

**Q.50** What is a common technique used to reduce core losses and the magnetising component in a current transformer?

- Ans**
- 1. Increasing the turns ratio of the current transformer
  - 2. Utilising laminated cores made of insulated sheets
  - 3. Using thicker core materials for better conductivity
  - 4. Decreasing the number of windings in the secondary coil

Question ID : 264330184457  
Option 1 ID : 264330722528  
Option 2 ID : 264330722530  
Option 3 ID : 264330722529  
Option 4 ID : 264330722531  
Status : Answered  
Chosen Option : 2

**Q.51** Candela per square metre is the unit of \_\_\_\_\_.

- Ans**
- 1. illumination
  - 2. luminous flux
  - 3. luminance
  - 4. luminous intensity

Question ID : 264330184633  
Option 1 ID : 264330723234  
Option 2 ID : 264330723232  
Option 3 ID : 264330723235  
Option 4 ID : 264330723233  
Status : Answered  
Chosen Option : 3

**Q.52** In a DC series motor, what is the relationship between speed and armature current?

- Ans**
- 1. Speed is directly proportional to armature current.
  - 2. Speed is independent of armature current.
  - 3. Speed is directly proportional to the square of armature current.
  - 4. Speed is inversely proportional to armature current.

Question ID : 264330184458  
Option 1 ID : 264330722533  
Option 2 ID : 264330722534  
Option 3 ID : 264330722535  
Option 4 ID : 264330722532  
Status : Answered  
Chosen Option : 4

**Q.53** What are the zero power factor characteristics (ZPFC) used for in the context of alternators?

- Ans**
- 1. To determine the synchronous speed of the alternator
  - 2. To assess the power factor when the alternator is loaded by reactors
  - 3. To plot the armature terminal voltage per phase against field current
  - 4. To calculate the short-circuit voltage of the alternator

Question ID : 264330184532  
Option 1 ID : 264330722828  
Option 2 ID : 264330722831  
Option 3 ID : 264330722829  
Option 4 ID : 264330722830  
Status : Answered  
Chosen Option : 4

**Q.54** What are the two types of breakdowns that can occur in p-n junctions?

- Ans**
- 1. Zener and capacitive breakdowns
  - 2. Avalanche and tunnelling breakdowns
  - 3. Voltage and current breakdowns
  - 4. Forward and reverse breakdowns

Question ID : 264330184561  
Option 1 ID : 264330722945  
Option 2 ID : 264330722944  
Option 3 ID : 264330722947  
Option 4 ID : 264330722946  
Status : Marked For Review  
Chosen Option : 2

**Q.55** For a certain D-MOSFET,  $I_{DSS} = 10 \text{ mA}$  and  $V_{GS(off)} = -8 \text{ V}$ . Calculate  $I_D$  at  $V_{GS} = -4 \text{ V}$ .

- Ans**
- 1. 2.5 mA
  - 2. 20 mA
  - 3. 50 mA
  - 4. 5 mA

Question ID : 264330184640  
Option 1 ID : 264330723260  
Option 2 ID : 264330723262  
Option 3 ID : 264330723263  
Option 4 ID : 264330723261  
Status : Answered  
Chosen Option : 1

**Q.56** Which type of electric meter is typically used for measuring energy consumption in large commercial and industrial properties with high energy needs?

- Ans**
- 1. Smart meters
  - 2. Single-phase meters
  - 3. Prepayment meters
  - 4. Three-phase meters

Question ID : 264330184516  
Option 1 ID : 264330722766  
Option 2 ID : 264330722764  
Option 3 ID : 264330722765  
Option 4 ID : 264330722767  
Status : **Marked For Review**  
Chosen Option : 4

**Q.57** Why is grounding important in the design of a substation?

- Ans**
- 1. To facilitate access for maintenance
  - 2. To protect against environmental effects
  - 3. To protect passers-by during a short circuit in the transmission system
  - 4. To ensure room for expansion due to load growth

Question ID : 264330184477  
Option 1 ID : 264330722609  
Option 2 ID : 264330722608  
Option 3 ID : 264330722610  
Option 4 ID : 264330722611  
Status : **Marked For Review**  
Chosen Option : 3

**Q.58** The property related to hard magnetic materials is:

- Ans**
- 1. high retentivity
  - 2. high permeability
  - 3. low coercive force
  - 4. low hysteresis loss

Question ID : 264330184444  
Option 1 ID : 264330722476  
Option 2 ID : 264330722477  
Option 3 ID : 264330722478  
Option 4 ID : 264330722479  
Status : **Marked For Review**  
Chosen Option : 3

**Q.59** What is the advantage of overhead cables compared to underground cables in terms of construction?

**Ans**  1. Overhead cables are better insulated.

2.

Overhead cables are more protected against moisture and corrosion.

3. Overhead cables are less expensive to construct.

4. Overhead cables are more environmentally friendly.

Question ID : 264330184482

Option 1 ID : 264330722629

Option 2 ID : 264330722631

Option 3 ID : 264330722630

Option 4 ID : 264330722628

Status : Answered

Chosen Option : 3

**Q.60** What is a brownout in the context of electrical power supply?

**Ans**  1.

Protection from power surges using surge protectors and circuit breakers

2. A complete loss of power to a geographic area

3.

A drop in the electrical power supply causing a drop in voltage

4.

A phenomenon that affects high power installations, leading to partial electric discharges

Question ID : 264330184470

Option 1 ID : 264330722583

Option 2 ID : 264330722580

Option 3 ID : 264330722581

Option 4 ID : 264330722582

Status : Answered

Chosen Option : 2

**Q.61** In a parallel RC circuit, the phase difference between the applied voltage and the voltage across R and C in parallel will be \_\_\_\_\_.

**Ans**  1.  $45^\circ$

2.  $30^\circ$

3.  $90^\circ$

4.  $0^\circ$

Question ID : 264330184588

Option 1 ID : 264330723054

Option 2 ID : 264330723053

Option 3 ID : 264330723055

Option 4 ID : 264330723052

Status : Answered

Chosen Option : 4

**Q.62** Which type of water turbine is generally suitable for high-head, low-flow applications?

- Ans**
- 1. Francis turbine
  - 2. Cross-flow turbine
  - 3. Pelton turbine
  - 4. Kaplan turbine

Question ID : 264330184543

Option 1 ID : 264330722874

Option 2 ID : 264330722873

Option 3 ID : 264330722872

Option 4 ID : 264330722875

Status : Answered

Chosen Option : 3

**Q.63** How does armature reaction affect the main field flux in an alternator when the load has a power factor of zero leading?

- Ans**
- 1. Armature reaction weakens the main field flux and reduces the generated EMF.
  - 2. Armature reaction distorts the main field flux and weakens it.
  - 3. Armature reaction distorts the main field flux and does not affect its strength.
  - 4. Armature reaction strengthens the main field flux and does not distort it.

Question ID : 264330184533

Option 1 ID : 264330722835

Option 2 ID : 264330722832

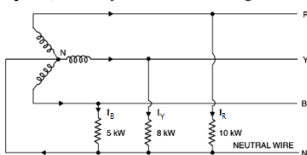
Option 3 ID : 264330722833

Option 4 ID : 264330722834

Status : Answered

Chosen Option : 4

**Q.64** Non-reactive loads of 10 kW, 8 kW and 5 kW are connected between the neutral and the red, yellow, and blue phases, respectively, of a 3- phase, 4-wire system. The line voltage is 400 V. Calculate the current  $I_R$ .



- Ans**
- 1. 21.6 A
  - 2. 34.6 A
  - 3. 43.3 A
  - 4. 18.9 A

Question ID : 264330184627

Option 1 ID : 264330723210

Option 2 ID : 264330723209

Option 3 ID : 264330723208

Option 4 ID : 264330723211

Status : Answered

Chosen Option : 3



**Q.65** What type of transmission line is characterised by a length ranging from 80 km to 240 km and includes both inductance and capacitance effects?

- Ans**
- 1. DC transmission line
  - 2. Long transmission line
  - 3. Medium transmission line
  - 4. Short transmission line

Question ID : 264330184545  
Option 1 ID : 264330722882  
Option 2 ID : 264330722881  
Option 3 ID : 264330722883  
Option 4 ID : 264330722880  
Status : Answered  
Chosen Option : 3

**Q.66** With reference to wind turbines, which of the following statements are correct?

- I. In a propeller-type turbine, the number of blades is three to six.
- II. The Darrieus type of turbine is an example of vertical axis turbines.
- III. Propeller type turbines are rarely used.
- IV. A multi-blade type turbine is an example of horizontal axis turbines.

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

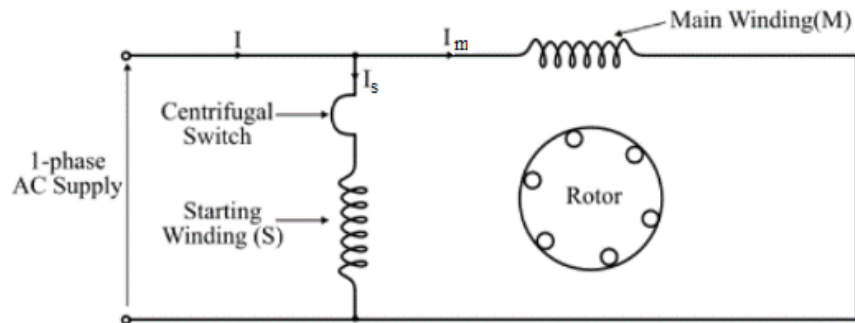
Question ID : 264330184618  
Option 1 ID : 264330723174  
Option 2 ID : 264330723172  
Option 3 ID : 264330723173  
Option 4 ID : 264330723175  
Status : Not Attempted and Marked For Review  
Chosen Option : --

**Q.67** What is the electrical power consumed by a circuit if a current of 4 A flows through a resistance of 5 k $\Omega$ ?

- Ans**
- 1. 8000 W
  - 2. 80 kW
  - 3. 800 W
  - 4. 800 kW

Question ID : 264330184435  
Option 1 ID : 264330722442  
Option 2 ID : 264330722440  
Option 3 ID : 264330722441  
Option 4 ID : 264330722443  
Status : Answered  
Chosen Option : 2

Q.68 identify the type of single-phase motor shown in the following figure.



- Ans
- 1. Permanent-split capacitor
  - 2. Shaded pole motor
  - 3. Split-phase induction motor
  - 4. Capacitor-start motor

Question ID : 264330184530

Option 1 ID : 264330722822

Option 2 ID : 264330722821

Option 3 ID : 264330722823

Option 4 ID : 264330722820

Status : Answered

Chosen Option : 3

Q.69 Which of the following terms is NOT related to nuclear power plants?

- Ans
- 1. Control rod
  - 2. Electrostatic precipitator
  - 3. Moderator
  - 4. Nuclear reactor

Question ID : 264330184616

Option 1 ID : 264330723164

Option 2 ID : 264330723166

Option 3 ID : 264330723165

Option 4 ID : 264330723167

Status : Answered

Chosen Option : 2

**Q.70** The starting torque of a resistance-start induction motor is \_\_\_\_\_ times the full load torque.

- Ans**
- 1. 1.5
  - 2. 4.5
  - 3. 9.5
  - 4. 7.5

Question ID : 264330184604  
Option 1 ID : 264330723116  
Option 2 ID : 264330723117  
Option 3 ID : 264330723119  
Option 4 ID : 264330723118  
Status : Answered  
Chosen Option : 1

**Q.71** What is the primary property of a dielectric material that makes it suitable for dielectric heating?

- Ans**
- 1. High electrical conductivity
  - 2. Inefficient heat dissipation
  - 3. Ability to be polarised by an applied electric field
  - 4. Low electrostatic field support

Question ID : 264330184486  
Option 1 ID : 264330722644  
Option 2 ID : 264330722647  
Option 3 ID : 264330722646  
Option 4 ID : 264330722645  
Status : Answered  
Chosen Option : 3

**Q.72** Identify whether the following statements are true or false.

- I. There is no skin effect in the DC transmission system.
- II. In DC transmission, corona losses are very large.

- Ans**
- 1. Statement 1 is true and statement 2 is false
  - 2. Both the statements are false
  - 3. Statement 1 is false and statement 2 is true
  - 4. Both the statements are true

Question ID : 264330184622  
Option 1 ID : 264330723189  
Option 2 ID : 264330723191  
Option 3 ID : 264330723190  
Option 4 ID : 264330723188  
Status : Answered  
Chosen Option : 1

**Q.73** Calculate the speed of the 8-pole alternator if the supply frequency is 50 Hz.

- Ans**
- 1. 750 rpm
  - 2. 1500 rpm
  - 3. 1000 rpm
  - 4. 500 rpm

Question ID : 264330184610  
Option 1 ID : 264330723141  
Option 2 ID : 264330723143  
Option 3 ID : 264330723142  
Option 4 ID : 264330723140  
Status : **Answered**  
Chosen Option : 1

**Q.74** Which type of turbine has adjustable blades and wicket gates, allowing for a wider range of operation?

- Ans**
- 1. Bulb turbine
  - 2. Tube turbine
  - 3. Straflo turbine
  - 4. Kaplan turbine

Question ID : 264330184472  
Option 1 ID : 264330722588  
Option 2 ID : 264330722590  
Option 3 ID : 264330722589  
Option 4 ID : 264330722591  
Status : **Not Attempted and Marked For Review**  
Chosen Option : --

**Q.75** What is the application of overexcited synchronous motors?

- Ans**
- 1. Operating centrifugal pumps
  - 2. Controlling voltage at the end of long transmission lines
  - 3. Generating different frequencies
  - 4. Power factor correction for lagging loads

Question ID : 264330184461  
Option 1 ID : 264330722544  
Option 2 ID : 264330722547  
Option 3 ID : 264330722545  
Option 4 ID : 264330722546  
Status : **Answered**  
Chosen Option : 4

**Q.76** For  $C = 101.5 \text{ nF}$ , determine  $L$  for the series resonant circuit if the resonant frequency is  $2800 \text{ Hz}$ .

- Ans**
- 1.  $26.56 \text{ mH}$
  - 2.  $46.45 \text{ mH}$
  - 3.  $31.83 \text{ mH}$
  - 4.  $16.32 \text{ mH}$

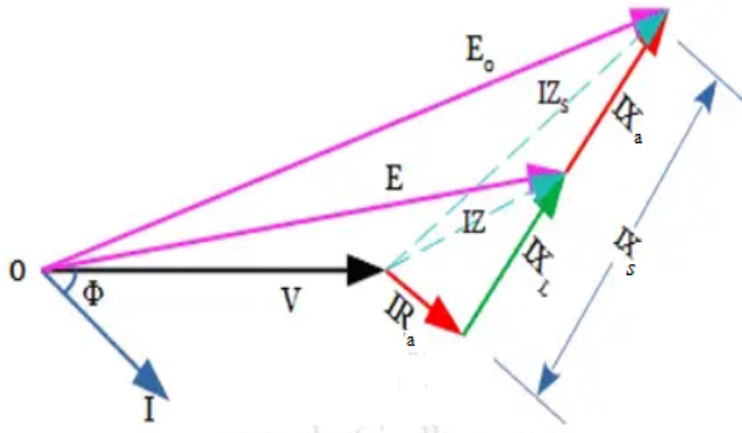
Question ID : **264330184449**  
Option 1 ID : **264330722497**  
Option 2 ID : **264330722499**  
Option 3 ID : **264330722498**  
Option 4 ID : **264330722496**  
Status : **Answered**  
Chosen Option : **3**

**Q.77** Which types of losses in a transformer are equal to each other, resulting in maximum efficiency of the transformer?

- Ans**
- 1. Core loss and hysteresis loss
  - 2. Iron loss and copper loss
  - 3. Eddy current loss and mechanical loss
  - 4. Copper loss and winding loss

Question ID : **264330184523**  
Option 1 ID : **264330722792**  
Option 2 ID : **264330722795**  
Option 3 ID : **264330722794**  
Option 4 ID : **264330722793**  
Status : **Answered**  
Chosen Option : **2**

Q.78 In the phasor diagram of an alternator, what does the angle  $\Phi$  represent?



- Ans  1. Phase angle between voltage and current  
 2. Leakage flux  
 3. Synchronous reactance  
 4. Power factor

Question ID : 264330184466  
 Option 1 ID : 264330722567  
 Option 2 ID : 264330722565  
 Option 3 ID : 264330722564  
 Option 4 ID : 264330722566  
 Status : Answered  
 Chosen Option : 1

Q.79 Which type of motor requires a DC supply to the rotor to generate the rotor's magnetic field and uses damper windings for starting?

- Ans  1. Reluctance Motor  
 2. Direct Current Excited Motor  
 3. Permanent Magnet Synchronous Motor  
 4. Three-Phase Induction Motor

Question ID : 264330184467  
 Option 1 ID : 264330722569  
 Option 2 ID : 264330722571  
 Option 3 ID : 264330722568  
 Option 4 ID : 264330722570  
 Status : Answered  
 Chosen Option : 2

**Q.80** The voltage gain in common collector configuration of a BJT is \_\_\_\_\_.

- Ans**
- 1. less than one
  - 2. above 100
  - 3. between 50 and 100
  - 4. zero

Question ID : 264330184638  
Option 1 ID : 264330723253  
Option 2 ID : 264330723255  
Option 3 ID : 264330723254  
Option 4 ID : 264330723252  
Status : Answered  
Chosen Option : 1

**Q.81** What is the function of the moderator in a nuclear reactor during the process of nuclear fission?

- Ans**
- 1. Slowing down the neutrons produced by fission
  - 2. Increasing the reaction rate
  - 3. Cooling down the reactor core
  - 4. Spinning the turbine

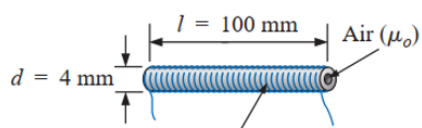
Question ID : 264330184474  
Option 1 ID : 264330722597  
Option 2 ID : 264330722596  
Option 3 ID : 264330722599  
Option 4 ID : 264330722598  
Status : Answered  
Chosen Option : 1

**Q.82** Given a 250 : 5 current transformer used with an ammeter reading of 2.7 A, what is the line current (primary current) in the circuit?

- Ans**
- 1. 250 A
  - 2. 84 A
  - 3. 36 A
  - 4. 135 A

Question ID : 264330184455  
Option 1 ID : 264330722520  
Option 2 ID : 264330722522  
Option 3 ID : 264330722523  
Option 4 ID : 264330722521  
Status : Answered  
Chosen Option : 4

**Q.83** Find the number of turns of the coil shown in the following figure, if the inductance of the coil is  $1.58 \mu\text{H}$ .



- Ans**
- 1. 25
  - 2. 100
  - 3. 78
  - 4. 50

Question ID : 264330184505

Option 1 ID : 264330722720

Option 2 ID : 264330722723

Option 3 ID : 264330722722

Option 4 ID : 264330722721

Status : Answered

Chosen Option : 2

**Q.84** The maximum load torque that can be applied to the shaft of an unexcited stepper motor, without causing continuous rotation, is called \_\_\_\_\_.

- Ans**
- 1. running torque
  - 2. pull-in torque
  - 3. pull-out torque
  - 4. detent torque

Question ID : 264330184607

Option 1 ID : 264330723128

Option 2 ID : 264330723130

Option 3 ID : 264330723131

Option 4 ID : 264330723129

Status : Answered

Chosen Option : 3

**Q.85** Which part of a DC motor is responsible for creating the mechanical revolutions of the unit?

- Ans**
- 1. Rotor
  - 2. Commutator
  - 3. Brushes
  - 4. Stator

Question ID : 264330184456

Option 1 ID : 264330722526

Option 2 ID : 264330722525

Option 3 ID : 264330722527

Option 4 ID : 264330722524

Status : Answered

Chosen Option : 1



**Q.86** What is the purpose of damper winding in a synchronous motor?

**Ans**  1.

To provide a backup power source in case of a power outage

2. To assist in the motor's starting as an induction motor

3. To control the speed of the synchronous motor

4. To generate additional torque for higher efficiency

Question ID : 264330184536

Option 1 ID : 264330722845

Option 2 ID : 264330722847

Option 3 ID : 264330722846

Option 4 ID : 264330722844

Status : Answered

Chosen Option : 2

**Q.87** What is the resonant frequency of an RLC circuit with the given values of resistance ( $R = 30 \Omega$ ), inductance ( $L = 1.3$  mH), and capacitance ( $C = 30 \mu\text{F}$ )?

**Ans**  1. 306.63 Hz

2. 100.53 Hz

3. 625.23 Hz

4. 254.80 Hz

Question ID : 264330184508

Option 1 ID : 264330722733

Option 2 ID : 264330722732

Option 3 ID : 264330722734

Option 4 ID : 264330722735

Status : Answered

Chosen Option : 4

**Q.88** In a single-phase RL series circuit, if the current lags the supply voltage by an angle of  $60^\circ$ , then the voltage across the inductor leads the supply voltage by an angle of \_\_\_\_.

**Ans**  1.  $30^\circ$

2.  $0^\circ$

3.  $60^\circ$

4.  $90^\circ$

Question ID : 264330184570

Option 1 ID : 264330722981

Option 2 ID : 264330722980

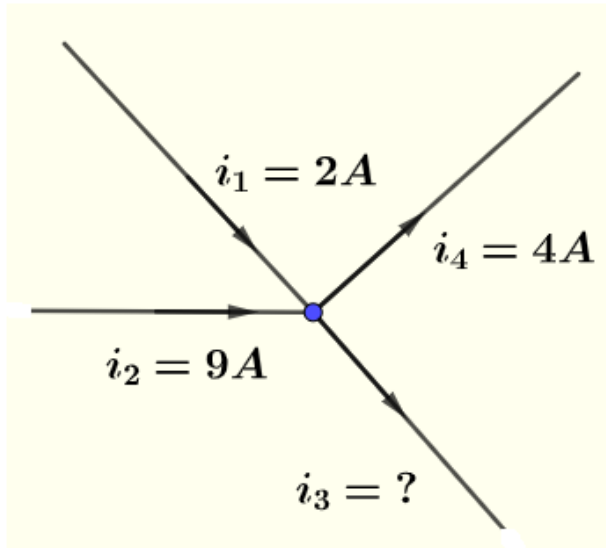
Option 3 ID : 264330722982

Option 4 ID : 264330722983

Status : Answered

Chosen Option : 1

Q.89 Find the current ' $i_3$ ' in the following diagram.



- Ans
- 1. 11 A
  - 2. 5 A
  - 3. 7 A
  - 4. 3 A

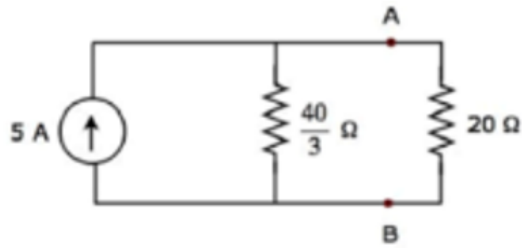
Question ID : 264330184571  
Option 1 ID : 264330722987  
Option 2 ID : 264330722985  
Option 3 ID : 264330722986  
Option 4 ID : 264330722984  
Status : Answered  
Chosen Option : 3

Q.90 Which component of the total cost of electrical energy is proportional to the energy generated (kWh)?

- Ans
- 1. Running cost
  - 2. Depreciation cost
  - 3. Semi-fixed cost
  - 4. Fixed cost

Question ID : 264330184538  
Option 1 ID : 264330722854  
Option 2 ID : 264330722855  
Option 3 ID : 264330722853  
Option 4 ID : 264330722852  
Status : Answered  
Chosen Option : 1

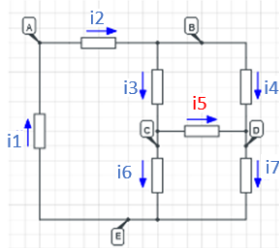
**Q.91** Find the current through  $20\ \Omega$  resistance in the circuit shown in the following figure.



- Ans**
- 1. 3 A
  - 2. 2 A
  - 3. 4 A
  - 4. 4.5 A

Question ID : 264330184500  
 Option 1 ID : 264330722701  
 Option 2 ID : 264330722700  
 Option 3 ID : 264330722702  
 Option 4 ID : 264330722703  
 Status : Answered  
 Chosen Option : 2

**Q.92** In the provided circuit, which of the following represents the correct Kirchhoff's Current Law (KCL) equation for node D?



- Ans**
- 1.  $i_3 = i_5 + i_6$
  - 2.  $i_4 + i_5 = i_7$
  - 3.  $i_4 + i_5 = -i_7$
  - 4.  $i_2 = i_3 + i_4$

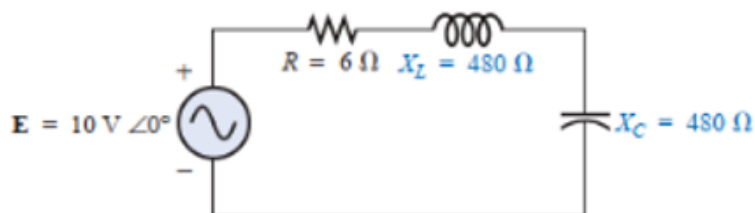
Question ID : 264330184495  
 Option 1 ID : 264330722681  
 Option 2 ID : 264330722683  
 Option 3 ID : 264330722682  
 Option 4 ID : 264330722680  
 Status : Answered  
 Chosen Option : 2

**Q.93** The direction of rotation of a conductor in a \_\_\_\_\_ is obtained by Fleming's left-hand rule.

- Ans**
- 1. DC generator
  - 2. transformer
  - 3. alternator
  - 4. DC motor

Question ID : 264330184595  
 Option 1 ID : 264330723081  
 Option 2 ID : 264330723083  
 Option 3 ID : 264330723082  
 Option 4 ID : 264330723080  
 Status : Answered  
 Chosen Option : 4

**Q.94** What is the quality factor for the given series resonance circuit?



- Ans**
- 1. 40
  - 2. 160
  - 3. 80
  - 4. 320

Question ID : 264330184448  
 Option 1 ID : 264330722492  
 Option 2 ID : 264330722494  
 Option 3 ID : 264330722493  
 Option 4 ID : 264330722495  
 Status : Answered  
 Chosen Option : 3

**Q.95** How is the magnetomotive force per unit length denoted, and what is its symbol in equation form?

- Ans**
- 1. Magnetic density (B)
  - 2. Magnetic permeability ( $\mu$ )
  - 3. Magnetising force (H)
  - 4. Magnetic flux ( $\Phi$ )

Question ID : 264330184440  
 Option 1 ID : 264330722463  
 Option 2 ID : 264330722462  
 Option 3 ID : 264330722461  
 Option 4 ID : 264330722460  
 Status : Answered  
 Chosen Option : 3

**Q.96** Which materials are classified as ferromagnetic based on their permeabilities compared to free space?

- Ans**  1. Materials with permeabilities the same as that of free space
2.  
Materials with permeabilities hundreds and thousands of times greater than that of free space
3.  
Materials with permeabilities slightly less than that of free space
4.  
Materials with permeabilities slightly greater than that of free space

Question ID : 264330184443  
Option 1 ID : 264330722474  
Option 2 ID : 264330722473  
Option 3 ID : 264330722472  
Option 4 ID : 264330722475  
Status : Answered  
Chosen Option : 2

**Q.97** Identify whether the following statements with reference to magnetic circuits are true or false.

1. Magnetic flux lines never intersect.
2. Each line of a magnetic flux is a closed loop by itself.

- Ans**  1. Statement 1 is false and statement 2 is true
2. Both the statements are false
3. Both the statements are true
4. Statement 1 is true and statement 2 is false

Question ID : 264330184579  
Option 1 ID : 264330723018  
Option 2 ID : 264330723019  
Option 3 ID : 264330723016  
Option 4 ID : 264330723017  
Status : Answered  
Chosen Option : 3

**Q.98** Which of the following statements is INCORRECT for a reluctance motor?

- Ans**  1. The rotor of a reluctance motor rotates with constant speed.
2. A reluctance motor has poor efficiency.
3.  
A reluctance motor is cheaper than any other kind of synchronous motor.
4.  
A reluctance motor can operate on AC as well as DC supply.

Question ID : 264330184602  
Option 1 ID : 264330723109  
Option 2 ID : 264330723108  
Option 3 ID : 264330723110  
Option 4 ID : 264330723111  
Status : Answered  
Chosen Option : 4

**Q.99** Which of the following is NOT a characteristic of a radial distribution system?

- Ans**
- 1. Power flows in only one direction
  - 2. Simple construction
  - 3. Low cost
  - 4. Highly reliable

Question ID : **264330184623**  
Option 1 ID : **264330723195**  
Option 2 ID : **264330723192**  
Option 3 ID : **264330723193**  
Option 4 ID : **264330723194**  
Status : **Answered**  
Chosen Option : **4**

**Q.100** Identify whether the following statements related to starters in DC motors are true or false.

1. In a three-point starter, electromagnets are used as overload release coil.
2. Two-point starters are used with DC series motors.

- Ans**
- 1. Statement 1 is false and statement 2 is true
  - 2. Both the statements are true
  - 3. Both the statements are false
  - 4. Statement 1 is true and statement 2 is false

Question ID : **264330184599**  
Option 1 ID : **264330723098**  
Option 2 ID : **264330723096**  
Option 3 ID : **264330723099**  
Option 4 ID : **264330723097**  
Status : **Answered**  
Chosen Option : **2**