

IOCL GE Electrical Memory Based Paper - 24 Sept. 2026

Directions (1-3): Read the given information and answer the following questions.

Seven friends, Karuna, Malati, Riya, Anvi, Guna, Prakul and Srinija, are sitting in a circle, and all of them are facing the centre, but not necessarily in the same order. Riya is sitting three places to the right of Prakul, who is sitting one place to the right of Anvi. Karuna forms an angle of 90° from Guna and an angle of 120° from Malati. Malati is just opposite to Srinija and is sitting to the left of Guna.

Q1. What is the position of Guna with respect to the person who is diagonally opposite to Malati?

- (a) To the immediate right
- (b) Second to the right
- (c) Third to the left
- (d) To the immediate left

Ans.(c)

Q2. In which of the following combinations is the first person sitting between the second person and the third person?

- (a) Riya, Malati, Guna
- (b) Prakul, Anvi, Srinija
- (c) Malati, Guna, Prakul
- (d) Riya, Karuna, Srinija

Ans.(c)

Q3. In which of the following combinations are the two persons NOT opposite to each other?

- (a) Srinija, Malati
- (b) Prakul, Karuna
- (c) Guna, Anvi
- (d) Riya, Anvi

Ans.(c)

Q4. In a certain code language,

'A + B' means 'A is the mother of B',

'A - B' means 'A is the brother of B',

'A × B' means 'A is the wife of B' and

'A ÷ B' means 'A is the father of B'.

How is Q related to R if 'K ÷ Q + T - P × R'?

- (a) Daughter's daughter
- (b) Mother's brother
- (c) Wife's mother
- (d) Daughter's husband

Ans.(c)



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Q5. A, B, C, D, E and F are six family members. A and B are a married couple. C is B's brother. D is A's son. E is D's sister. F is C's father. What is E's relation to A?

- (a) Daughter
- (b) Sister
- (c) Niece
- (d) Cousin

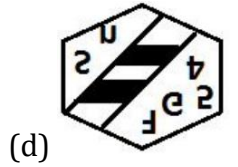
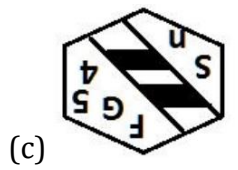
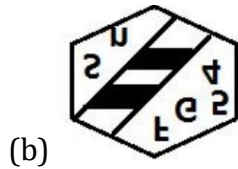
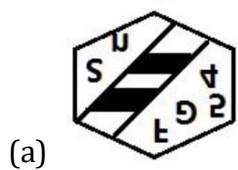
Ans.(a)

Q6. 'A @ B' means A is the sister of B,
 'A # B' means A is the mother of B,
 'A \$ B' means A is the father of B,
 'A % B' means A is the brother of B.
 What is the relation in: P # Q @ R ?

- (a) P is the mother of R
- (b) Q is the brother of R
- (c) P is the grandmother of R
- (d) P is the aunt of R

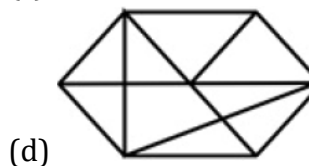
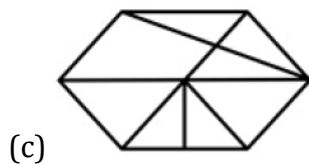
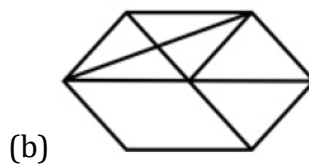
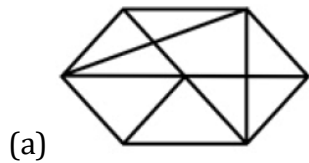
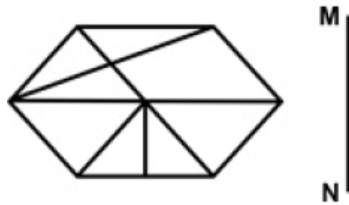
Ans.(a)

Q7. Which of the option figures represents the correct water image of the figure given below?



Ans.(b)

Q8. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given figure?



Ans.(c)

Q9. Find the next element that replace the ? Logically
8, 24, 88, 344, ?

- (a) 1368
- (b) 1385
- (c) 1373
- (d) 1367

Ans.(a)

Q10. Find the next element that replace the ? Logically
10, 24, 52, 108, ?

- (a) 220
- (b) 226
- (c) 214
- (d) 233

Ans.(a)

Q11. Find the next element that replace the ? Logically

7, 24, 58, 126, ?

- (a) 252
- (b) 262
- (c) 273
- (d) 264

Ans.(b)

Q12. $(6 + \sqrt{2})^2 + (6 - \sqrt{2})^2 - 50 = ?$

- (a) 24
- (b) 26
- (c) 28
- (d) 30

Ans.(b)

Q13. $5\frac{1}{3} + 55\frac{1}{15} + 555\frac{1}{35} + 5555\frac{1}{63}$

- (a) $170\frac{4}{9}$
- (b) $170\frac{8}{9}$
- (c) $170\frac{9}{8}$
- (d) $170\frac{1}{9}$

Ans.(a)

Q14. The perimeter of a rhombus is 58 cm. One of the diagonal is 20 cm. What is the sum (in cm) of both the diagonals of the rhombus?

- (a) 41
- (b) 45
- (c) 39
- (d) 36

Ans.(a)

Q15. The base of a regular right pyramid is an isosceles triangle with equal sides of 25 cm and base of 30 cm. The slant height of the pyramid is 40 cm. Find the total surface area of the pyramid.

- (a) 1700 cm^2
- (b) 1900 cm^2
- (c) 1200 cm^2
- (d) 2300 cm^2

Ans.(b)

Q16. The average price of three items of furniture is ₹5,055. If their prices are in the ratio 3 : 5 : 7, the price of the costliest item (in ₹) is:

- (a) 1,011
- (b) 7,077
- (c) 5,055
- (d) 3,033

Ans.(b)

Q17. Identify the error in the given sentence and choose the option that rectifies it.

She carried a basket with a apple and a sandwich in it.

- (a) She carried a basket with an apple and sandwich in it.
- (b) She carried a basket with an apple and a sandwich in it.
- (c) She carried the basket with an apple and an sandwich in it.
- (d) She carried a basket with a apple and an sandwich in it.

Ans.(b)

Q18. Read the sentences and identify the part which has an error. If 'no error' then select option IV.

My pet dog is tired with playing the entire day.

- (a) My pet dog is
- (b) No error
- (c) tired with playing
- (d) the entire day.

Ans.(c)

Q19. A sentence with a highlighted phrasal verb is given below. Out of the four options, choose the one which can be substituted for the given phrasal Verb.

He has to bear up much for the sake of love.

- (a) succumb
- (b) do
- (c) endure
- (d) pay

Ans.(c)

Q20. Select the most appropriate option to substitute the highlighted segment in the given sentence.

During the war, the comedian proved to be a man of music.

- (a) man of words
- (b) man of Mars
- (c) man of straw
- (d) man of grass

Ans.(c)

Directions (21-25): In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

One of (a)_____ era's greatest scourges is air pollution, on account not only of its impact on climate change (b)_____ its impact on public and individual health due to increasing morbidity and mortality. There are (c)_____ pollutants that are major factors in disease in humans. Among them, Particulate Matter (PM), particles of variable but very small diameter, penetrate the respiratory system via inhalation, causing respiratory and cardiovascular diseases, reproductive and central nervous system dysfunctions, and cancer. (d)_____ the fact that ozone in the stratosphere plays a protective role against ultraviolet irradiation, it is harmful when in high concentration at ground level, also affecting the respiratory and cardiovascular system. Furthermore, nitrogen oxide, sulphur dioxide, Volatile Organic Compounds (VOCs), dioxins, and polycyclic aromatic hydrocarbons are all considered air pollutants that are 5._____ to humans.

Q21. Select the most appropriate option to fill in blank no. 1.

- (a) our
- (b) my
- (c) every
- (d) own

Ans.(a)

Q22. Select the most appropriate option to fill in blank no. 2.

- (a) or
- (b) but also
- (c) either
- (d) nor

Ans.(b)

Q23. Select the most appropriate option to fill in blank no. 3.

- (a) very
- (b) more
- (c) many
- (d) less

Ans.(c)

Q24. Select the most appropriate option to fill in blank no. 4.

- (a) Disregarding
- (b) In spite
- (c) Doubting
- (d) Despite

Ans.(d)

Q25. Select the most appropriate option to fill in blank no. 5.

- (a) harmful
- (b) scary
- (c) dangerous
- (d) violent

Ans.(a)

Q26. The root locus of a unity feedback system with $G(s) = \frac{K}{s(s+4)}$. The angle made by asymptotes are:

- (a) $20^\circ, 220^\circ$
- (b) $35^\circ, 250^\circ$
- (c) $85^\circ, 120^\circ$
- (d) $90^\circ, 270^\circ$

Ans.(d)

Q27. In an N-type semiconductor, what type of impurity is added to create free electrons?

- (a) Indium (In)
- (b) Gallium (Ga)
- (c) Phosphorus (P)
- (d) Boron (B)

Ans.(c)

Q28. In Zener diode, the Zener breakdown takes place

- (a) Above 6 V
- (b) Below 6 V
- (c) At 6 V
- (d) None of the above

Ans.(b)

Q29. LVDT The number of primary and secondary coils in an LVDT are

- (a) 1,1
- (b) 1,2
- (c) 2,1
- (d) 2,2

Ans.(b)

Q30. Input to a controller is the following signal:

- (a) Error signal
- (b) Servo signal
- (c) Desired variable value
- (d) Sensed signal

Ans.(a)

Q31. A 20 KVA. 4000/800 V ideal transformer has 10 A primary current. Find the secondary current

- (a) 20 A
- (b) 2 A
- (c) 50 A
- (d) 10 A

Ans.(c)

Q32. Which dc motor can be regarded as a constant speed motor without any controller?

- (a) Cumulatively compounded motor
- (b) Differentially compounded motor
- (c) Series motor
- (d) Shunt motor

Ans.(d)

Q33. By flux control method of speed control of a dc series motor, we can obtain speeds:

- (a) At normal speed
- (b) Higher than its rated speed
- (c) Above as well as below the rated speed
- (d) Below rated speed

Ans.(b)

Q34. opposes the change in circuit voltage.

- (a) Resistance
- (b) Inductance
- (c) Capacitance
- (d) Inductive reactance

Ans.(c)

Q35. The function of shunt in an ammeter is to

- (a) by pass the current
- (b) increase the sensitivity of the ammeter
- (c) increase the resistance of ammeter
- (d) none of the above

Ans.(a)

Q36. Which type of energy audit involves analysis of capital intensive improvements?

- (a) Walkthrough audit
- (b) Detailed audit
- (c) Benchmarking
- (d) Investment-grade audit

Ans.(d)

Q37. The best definition of a superconductor is

- (a) It is a material showing perfect conductivity and Meissner effect below a critical temperature
- (b) It is conductor having zero resistance
- (c) It is a perfect conductor with highest diamagnetic susceptibility
- (d) It is a perfect conductor but becomes resistive when the current density through it exceeds a critical value

Ans.(d)

Q38. A MOSFET is

- (a) Majority carrier device
- (b) Minority carrier device
- (c) Both majority and Minority carrier device
- (d) None of the above

Ans.(a)

Q39. Which type of bulb operates at a very high working temperature?

- (a) LED Lamp
- (b) Fluorescent Lamp
- (c) Incandescent Lamp
- (d) Compact Fluorescent Lamp (CFL)

Ans.(c)

Q40. Kirchhoff's Current Law (KCL) is the first law that deals with the conservation of-

- (a) Charge
- (b) Linear momentum
- (c) Momentum
- (d) Mass

Ans.(a)

Q41. In a single-phase series RL circuit, $X_L = 15\Omega$ and $R = 20\Omega$. Find the impedance of the circuit.

- (a) 25Ω
- (b) 15Ω
- (c) 20Ω
- (d) 35Ω

Ans.(a)

Q42. Find the maximum permissible current through a $400\text{-}\Omega, 1\text{-W}$ resistor.

- (a) 5 mA
- (b) 1 mA
- (c) 50 mA
- (d) 10 mA

Ans.(c)

Q43. If 2.2 m long conductor has a cross-sectional area of 0.025 m^2 and resistance of 5 ohms, find its resistivity.

- (a) 0.072 ohm- m
- (b) 0.57 ohm- m
- (c) 0.85 ohm-m
- (d) 0.67 ohm-m

Ans.(b)

Q44. When 'n' resistance of value 'x' is connected in parallel. Then total resistance is -

- (a) nx
- (b) n^2x
- (c) x/n
- (d) n/x

Ans.(c)

Q45. Which of the following gate is called universal gate?

- (a) AND
- (b) NOT
- (c) NOR
- (d) EX-OR

Ans.(c)

Q46. If the equation of sinusoidal current is $141.4 \sin(314t)$. Find the RMS value and frequency of the current.

- (a) 400 A and 200 Hz
- (b) 100 A and 50 Hz
- (c) 300 A and 150 Hz
- (d) 200 A and 100 Hz

Ans.(b)

Q47. Which of the following facts is correct for KCL?

- (a) Energy may be stored at the node
- (b) Possibility of charge accumulation at node
- (c) Charge accumulation may or may not be possible
- (d) Zero charge accumulation at node

Ans.(d)

Q48. SCR is a _____ layer _____ junction device.

- (a) Single, Three
- (b) Two, Four
- (c) Three, Four
- (d) Four, Three

Ans.(d)

Q49. Mutual inductance is measured in-

- (a) Ampere
- (b) Volt
- (c) Henry
- (d) Ohm

Ans.(c)

Q50. A 3-phase, 50-Hz, 4-pole induction motor runs at a speed of 1400 rpm. Find the slip speed.

- (a) 100rpm
- (b) 50rpm
- (c) 1500rpm
- (d) 1400 rpm

Ans.(a)

Q51. Which of the following statements are correct?

1. Lenz's law is based on the conservation of charge.
2. Lenz's law gives the direction of induced current.
3. Lenz's law is based on the conservation of energy.

- (a) (1), (2) and (3)
- (b) Both (1) and (3)
- (c) Both (1) and (2)
- (d) Both (2) and (3)

Ans.(d)

Q52. What is the maximum voltage limit for underground lines used in power transmission?

- (a) 33 kV
- (b) 66 kV
- (c) 110 kV
- (d) 220 kV

Ans.(b)

Q53. Kirchhoff's current law is a consequence of the law of conservation of:

- (a) energy
- (b) heat
- (c) motion
- (d) gravity

Ans.(a)

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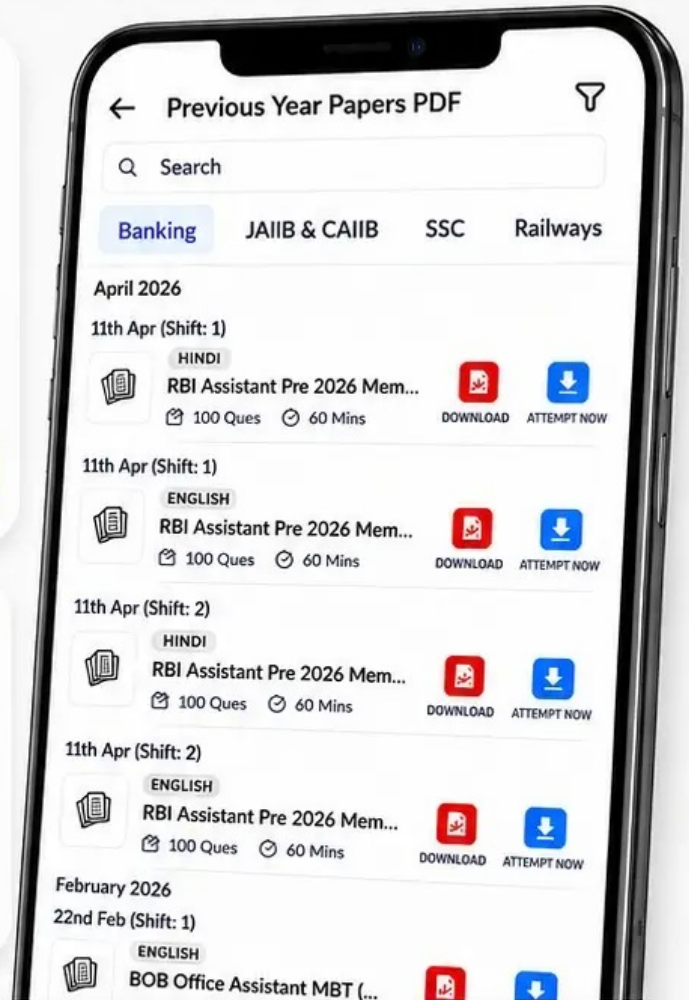
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Q54. Which part of the motor confirms that it is a DC motor.

- (a) Commutator
- (b) Stator
- (c) Frame
- (d) Shaft

Ans.(a)

Q55. Surge impedance values for cables are

- (a) Higher than those of overhead lines.
- (b) Lower than those of overhead lines.
- (c) Of the same order as those of overhead lines.
- (d) None of the above

Ans.(b)

