

ELECTRIC CURRENT AND MAGNETISM BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

Q1. For electroplating a spoon, it is placed in the voltameter at

- a) the position of cathode
 - b) exactly in the middle of anode and cathode
 - c) the position of anode
 - d) anywhere in the electrolyte
-

Q2. In a three-pin electrical plug longest pin should be connected to

- a) Neutral terminal
 - b) Ground terminal
 - c) Live terminal
 - d) Any terminal
-

Q3. Whenever, current is changed in a coil, an induced e.m.f. is produced in the same coil. This property of the coil is due to

- a) self induction
 - b) eddy currents
 - c) mutual induction
 - d) hysteresis
-

Q4. Potential at any point inside a charged hollow sphere

- a) is a constant
- b) decreases with distance from centre

- c) increases with distance
- d) is zero

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Q5. Demagnetisation of magnets can be done by

- a) magnetising in the opposite direction
- b) rough handling
- c) heating
- d) All of the above

Q6. Fuse wire is made of

- a) copper
- b) aluminium
- c) platinum
- d) alloy of tin and lead

Q7. A fuse wire is characterized by

- a) High resistance and low melting point
- b) Low resistance and high melting point
- c) Low resistance and low melting point
- d) High resistance and high melting point

Q8. Match list I with list II and select the correct answer using the codes given below the lists

List I	List II
A. Magnet with single pole	1. Resultant field is zero
B. Null points	2. Earth's magnetic fields
C. Terrestrial magnetism	3. Does not exist
D. Artificial magnet	4. Horseshoe magnet

Select the correct answer using the codes given below the lists:

a) A – 3 ; B – 1 ; C – 2 ; D – 4

b) A – 3 ; B – 1 ; C – 2 ; D – 4

c) A – 4 ; B – 2 ; C – 3 ; D – 1

d) A – 2 ; B – 4 ; C – 1 ; D – 3

Q9. An electric bulb is filled with

a) oxygen and hydrogen

b) ammonia

c) hydrogen

d) nitrogen and argon

Q10. Which of the following option represents the consumption of power in ascending order?

a) Fan, television, electronic press, electronic kettle

b) Television, fan, electronic press, electronic kettle

c) Television, fan, electronic kettle, electronic press

d) Electronic press, electronic kettle, fan, television

Q11. The mobility of conduction electrons is greater than that of holes, since electrons

a) are negatively charged

b) require smaller energy for moving through crystal lattice

- c) are lighter
 - d) undergo smaller number of collisions
-

Q12. How does the white light produce in the tube?

- a) To accelerate the atoms
- b) To heat up the copper wire
- c) To heat up the filament
- d) To oscillate molecule

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Q13. Curie temperature is the temperature above which

- a) a ferromagnetic material becomes diamagnetic
 - b) a ferromagnetic material becomes paramagnetic
 - c) a paramagnetic material becomes diamagnetic
 - d) a paramagnetic material becomes ferromagnetic
-

Q14. The core of a transformer is laminated because

- a) ratio of voltage in primary and secondary may be increased
 - b) the weight of the transformer may be reduced
 - c) rusting of the core may be prevented
 - d) energy losses due to eddy currents may be minimised
-

Q15. At absolute zero, Si acts as

- a) metal
- b) insulator

- c) non-metal
- d) None of these

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Answers to the above questions :

Q1. Answer: (a)

In electroplating, the metallic ions are positive, which are deposited on cathode.

Q2. Answer: (b)

Q3. Answer: (a)

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Q4. Answer: (a)

As, $E = \frac{-dV}{dr}$ or, $O = \frac{-dV}{dr}$

Because electric field inside a charged hollow sphere is zero. or, $v = \text{constant}$

Q5. Answer: (d)

Q6. Answer: (b)

Q7. Answer: (a)

Q8. Answer: (b)

A ? 3; B ? 1; C ? 2; D ? 4

- Each magnet has N - S poles. Magnetic poles cannot be isolated.
- Null points are the points at which the field due to the magnet is completely neutralized by the horizontal component of the earth's magnetic field.
- The branch of physics that deals with the study of the earth's magnetic field are called terrestrial magnetism.
- Horseshoe magnet is an artificial magnet.

Q9. Answer: (d)

Q10. Answer: (a)

Q11. Answer: (b)

Q12. Answer: (c)

Q13. Answer: (b)

Q14. Answer: (d)

When there is a change of flux in the core of a transformer due to a change in current around it, eddy current is produced.

The direction of this current is opposite to the current which produces it, so it will reduce the main current.

We laminate the core so that flux is reduced resulting in the reduced production of eddy current.

Q15. Answer: (b)

Semiconductors are insulators at room temperature.

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