

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

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Q1. Which of the statements is true for p-type semiconductos?

- a) Electrons are minority carriers and pentavalent atoms are the dopants.
 - b) Holes are minority carriers and pentavalent atoms are the dopants.
 - c) Electrons are majority carriers and trivalent atoms are the dopants.
 - d) Holes are majority carriers and trivalent atoms are the dopants.
-

Q2. When a ferromagnetic material is heated to temperature above its Curie temperature, the material:

- a) behaves like a diamagnetic material
 - b) is permanently magnetized
 - c) remains ferromagnetic
 - d) behaves like a paramagnetic material
-

Q3. Match list-I with list -II:

List I	List II
A. Greek word for Amber	1. Electric discharge
B. Positively charged particle	2. Flow of charge
C. Cause of lightning	3. Electron
D. Electric current	4. Proton

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

- a) A – 4 ; B – 3 ; C – 2 ; D – 1
- b) A – 3 ; B – 1 ; C – 2 ; D – 4

c) A – 4 ; B – 2 ; C – 3 ; D – 1

d) A – 3 ; B – 4 ; C – 1 ; D – 2

Q4. The frequency of A.C. mains in India is

a) 50 c/s

b) 60 c/s

c) 30 c/s

d) 120 c/s

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Q5. If the focal length of the biconvex lens is 25 cm, then the power of the lens will be

a) + 0.04 dioptre

b) + 4 dioptre

c) – 4 dioptre

d) – 0.04 dioptre

Q6. Yellow colour light is used as fog light because yellow colour

a) has the longest wavelength among all colours except red and orange but the red colour is already used for brake light and stop light whereas orange colour is avoided due to its similarity with red

b) light is most scattered by fog

c) has the longest wavelength among all colours

d) has the shortest wavelength among all colours not already reserved for other purpose

Q7. The magnetism of magnet is due to

- a) pressure of big magnet inside the earth
 - b) the spin motion of electron
 - c) earth
 - d) cosmic rays
-

Q8. In comparison to an electric bulb, a fluorescent tube is preferred because

- a) In the tube, electric energy almost converted into light energy
 - b) It has greater external outer surface to radiate/emit the light
 - c) There is no effect of voltage fluctuation on it
 - d) None of the above
-

Q9. When n-p-n transistor is used as an amplifier

- a) holes move from emitter to base
 - b) electrons move from base to collector
 - c) electrons move from collector to base
 - d) holes move from base to emitter
-

Q10. The value of 1 kilowatt hour is

- a) 10^3 J
 - b) 3.6×10^6 J
 - c) 3.6×10^3 J
 - d) 10^5 J
-

Q11. The essential difference between an AC generator and a DC generator is that

- a) DC generator will generate a higher voltage
- b) AC generator will generate a higher voltage

- c) AC generator has an electromagnet while a DC generator has permanent magnet
 - d) AC generator has slip rings while the DC generator has a commutator
-

Q12. What is the number of neutral points for a bar magnet with its north pole pointing geographical north?

- a) Two
- b) Zero
- c) One
- d) Infinite

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Q13. Two identical conducting balls having positive charges q_1 and q_2 are separated by a distance r . If they are made to touch each other and then separated to the same distance, the force between them will be

- a) same as before
- b) more than before
- c) less than before
- d) zero

Q14. What happens when some charge is placed on a soap bubble?

- a) Its radius increases
- b) The bubble collapses
- c) Its radius decreases
- d) None of these

Q15. In the symbol of a transistor, the arrow head points in the direction of flow of

- a) electrons
- b) majority carriers
- c) holes
- d) minority carriers

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Answers to the above questions :

Q1. Answer: (d)

Q2. Answer: (d)

At a particular temperature, known as curie temperature, ferromagnetic material changes over to paramagnetic material.

The ferromagnetic effects weaken with increasing temperature because random thermal motions tend to destroy the alignment of the magnetic dipole moments.

Q3. Answer: (d)

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

- Electron is the greek work for Amber.
- Proton is a positively charged particle.
- Electric discharge is the cause of lightning.
- Flow of electron causes electric current.

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Q4. Answer: (a)

Q5. Answer: (b)

Q6. Answer: (a)

Q7. Answer: (b)

Q8. Answer: (d)

Q9. Answer: (d)

Holes move from base to emitter.

Q10. Answer: (b)

Q11. Answer: (d)

Q12. Answer: (a)

Q13. Answer: (b)

Q14. Answer: (a)

The radius of soap bubble increases because of outward force acting on the bubble due to charging.

Q15. Answer: (c)

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