

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

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Created By [Careericons](#) Team

Q1. How many units of electricity will be consumed if you use a 60 watt electric bulb for 5 hours everyday for 30 days?

- a) 6
 - b) 12
 - c) 9
 - d) 3
-

Q2. A far-sighted person has a near point at 100 cm. What must be the power of the correcting lens?

- a) + 0.8 D
 - b) - 0.8 D
 - c) - 3.0 D
 - d) + 3.0 D
-

Q3. Magnetic meridian is a

- a) vertical plane
 - b) point
 - c) horizontal plane
 - d) line along N-S
-

Q4. When an iron bar is moved over a bar magnet along its length the attractive force

- a) remains same

- b) increases first and then decreases
- c) decreases first and then increases
- d) cannot say

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Q5. Consider the following statements

- Clear sky appears blue due to poor scattering of blue wavelength of visible light.
- Red part of light shows more scattering than blue light in the atmosphere.
- In the absence of atmosphere, there would be no scattering of light and sky will look black.

Which of the statements given above is/are correct?

- a) Only 3
- b) Only 1
- c) 1 and 2
- d) All of these

Q6. If a body is positively charged, then it has

- a) excess of protons
- b) deficiency of electrons
- c) excess of electrons
- d) deficiency of neutrons

Q7. Which gas is filled in normal tubelights?

- a) Mercury vapour with argon
- b) Sodium vapour with argon
- c) Sodium vapour with neon
- d) Mercury vapour with neon

Q8. Regarding a semiconductor which one of the following is wrong?

- a) There are no free electrons at 0K
 - b) The number of free electrons increases with rise of temperature
 - c) There are no free electrons at room temperature
 - d) The charge carriers are electrons and holes
-

Q9. The energy band gap is maximum in

- a) superconductors
 - b) insulators
 - c) metals
 - d) semiconductors
-

Q10. A fuse is used in main electric supply as a safety device. Which one of the following statements about the fuse is correct?

- a) It must have a low melting point
 - b) It is connected in parallel with the main switch
 - c) It is made mainly from silver alloys
 - d) It must have a very high resistance
-

Q11. When an n–p–n transistor is used as an amplifier then

- a) holes flow from emitter to collector
 - b) electrons flow from collector to emitter
 - c) electrons flow from emitter to collector
 - d) electrons flow from battery to emitter
-

Q12. A coin in a beaker filled with water appears raised. This phenomenon occurs because of the property of

- a) total internal reflection of light

- b) reflection of light
- c) refraction of light
- d) interference of light

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Q13. Electrically charged particles from space travelling at speeds of several hundred km/sec can severely harm living beings if they reach the surface of the Earth. What prevents them from reaching the surface of the Earth?

- a) Moisture in the upper layers of atmosphere prevents them from reaching the surface of the Earth
- b) The Earth's magnetic field diverts them towards its poles
- c) Ozone layer around the Earth reflects them back to outer space
- d) None of the statements (a), (b) and (c) given above is correct

Q14. Magnetism of a bar magnet can be destroyed if it is

- I. kept in the magnetic meridian.
- II. placed in a direction opposite to that of the Earth's horizontal intensity.
- III. heated to a temperature known as Curie temperature.

Select the correct answer using the code given below

- a) II and III only
- b) I and III only
- c) II only
- d) I, II and III

Q15. In a common base amplifier the phase difference between the input signal voltage and the output voltage is

- a) $\pi/4$
- b) $\pi/2$

c) 0

d) ?

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Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (d)

Q3. Answer: (a)

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Q4. Answer: (c)

Q5. Answer: (a)

Q6. Answer: (b)

Positive charge is due to deficiency of electrons.

Q7. Answer: (a)

Q8. Answer: (c)

At room temperature, few bonds breaks and electron hole pair generates inside the semiconductor.

Q9. Answer: (b)

Maximum in insulators and overlapping in metals.

Q10. Answer: (a)

Q11. Answer: (c)

In an n-p-n transistor, the charge carriers, are free electrons in the transistor as well as in external circuit; these electrons flow from emitter to collector.

Q12. Answer: (c)

Q13. Answer: (b)

Q14. Answer: (a)

Q15. Answer: (c)

The phase difference between output voltage and input signal voltage in common base transistor circuit is zero

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