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

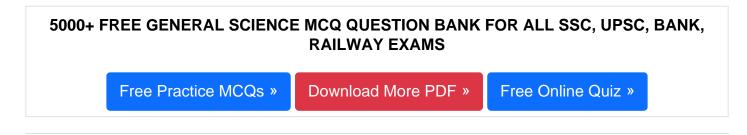
Q3. Magnetic meridian is a

- 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



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) ?/4

b) ?/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 overlaping 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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