## MODERN AND SPACE PHYSICS, SOURCES OF ENERGY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By Careericons Team

**Q1.** The process of superimposing signal frequency (i.e., audio wave) on the carrier wave is known as

- a) Reception
- b) Modulation
- c) Transmission
- d) Detection
- Q2. The service area of space wave communication increases by -
- a) Decreasing the height of receiving antenna
- b) Increasing the height of both transmitting and receiving antenna
- c) Increasing the height of transmitting antenna
- d) Decreasing the distance between transmitting and receiving antenna

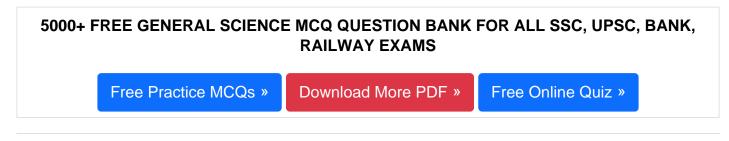
**Q3.** In frequency modulation:

- a) The frequency of modulated wave varies as amplitude of modulating wave
- b) The amplitude of modulated wave varies as amplitude of carrier wave
- c) The amplitude of modulated wave varies as frequency of carrier wave
- d) The frequency of modulated wave varies as frequency of modulating wave.

## Q4. Light Emitting Diode (LED) converts

- a) electrical energy into light energy
- b) thermal energy into light energy

- c) light energy into electrical energy
- d) mechanical energy into electrical energy



## Q5. At absolute zero, Si acts as

- a) metal
- b) insulator
- c) non-metal
- d) None of these

## Q6. Space wave propagation is:

- tropospherical propagation
- sky wave propagation
- line of sight propagation

Which of the above statement(s) is/are correct? a) 1 and 3

- b) 2 only
- c) 1 only
- d) 2, 3 and 4

Q7. Which of the following cannot be fabricated on an IC?

- a) Inductors and transformers
- b) Diodes
- c) Transistors
- d) Resistors

- Q8. The transistor are usually made of
- a) metals with high temperature coefficient of resistivity
- b) metals with low temperature coefficient of resistivity
- c) metal oxides with high temperature coefficient of resistivity
- d) semiconducting materials having low temperature coefficient of resistivity

## Q9. The waves used in telecommunication are

- a) UV
- b) Microwave
- c) IR
- d) Cosmic rays

**Q10.** Consider the following statements: At the present level of technology available in India, solar energy can be conveniently used to :

- Supply hot water to residential buildings.
- Supply water for minor irrigation projects.
- Provide street lighting.
- Electrify a cluster of villages and small towns.
- a) 2 and 4 are correct
- b) 1 and 3 are correct
- c) 1, 2, 3 and 4 are correct
- d) 1, 2 and 3 are correct

**Q11.** The neutron, proton, electron and alpha particle are moving with equal kinetic energies. How can the particles be arranged in the increaseing order of their velocities?

- a) proton-electron-neutron-alpha paraticle
- b) electron-proton-neutron-alpha paraticle
- c) alpha particle-neutron-proton- electron
- d) neutron-proton-electron-alpha paraticle

Q12. Which one of the following is correct? The wavelength of the X-rays

- a) is longer than the wavelength of the yellow sodium light
- b) is longer than the wavelength of radio waves
- c) is longer than the wavelength of sound waves
- d) is of the order of 0.1 nanometer



- Q13. The active component in an IC are
- a) Capacitors
- b) Transistors and diodes
- c) Resistors
- d) None of these

**Q14.** Einstein's photoelectric equation states that h? =  $W_0 + E_k$  in this equation,  $E_k$  refers to the

- a) Mean kinetic energy of the emitted electrons
- b) Maximum kinetic energy of the emitted electrons
- c) Kinetic energy of all the emitted electrons
- d) Minimum kinetic energy of the emitted electrons
- Q15. \_\_\_\_\_ is used as a fuel in space ships.
- a) Alcohol
- b) Petrol
- c) Hydrogen
- d) Diesel

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#### Answers to the above questions :

Q1. Answer: (b)

#### Q2. Answer: (b)

Maximum range of space wave propagation

 $d = \frac{4}{3} = \frac{1.23 [{H_t} + {H_r}]}{2}$ 

? d ? H<sub>t</sub> and d ? H<sub>r</sub>

? d increases if H<sub>t</sub> and H<sub>r</sub>

i.e. height of transmitting and receiving antenna increases.

#### Q3. Answer: (a)

The process of changing the frequency of a carrier wave (modulated wave) in accordance with the audio frequency signal (modulating wave) is known as frequency modulation (FM).

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Q4. Answer: (a)

Q5. Answer: (b)

# Q6. Answer: (a) Space wave propagation is tropospherical propagation and line of sight propagation. Q7. Answer: (a) Q8. Answer: (c) Q9. Answer: (b) Q10. Answer: (c) Q11. Answer: (c) Q12. Answer: (d) Q13. Answer: (b) Q14. Answer: (b)

In the given relation Ek stands for maximum K.E. of emitted photoelectron.

Q15. Answer: (c)

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