

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

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Q1. Audio signal cannot be transmitted because

- a) the signal cannot be amplified for distance communication
 - b) the transmitting antenna length is very small to design
 - c) the signal has more noise
 - d) the transmitting antenna length is very large and impracticable
-

Q2. Match List-I with List-II and select the correct answer using the code given below the lists.

List I	List II
A. Photons	1. The minimum energy for emission of electron
B. Nucleons	2. Heavy water
C. Work function	3. Packet of energy
D. Coolant	4. Neutrons and Protons

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

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

Q3. Geothermal energy is

- a) energy stored as heat in the earth
- b) amount of energy obtained from coal and petroleum inside earth crust.

- c) energy of magma inside the earth crust
 - d) amount of minerals obtained from earth crust
-

Q4. The most familiar form of radiant energy in sunlight that causes tanning and sunburning of human skin, is called

- a) visible radiation
- b) infrared radiation
- c) ultraviolet radiation
- d) microwave radiation

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Q5. In the photoelectric effect, electrons are emitted:

- a) With a maximum velocity proportional to the frequency of the incident radiation.
 - b) At a rate that is independent of the emitter.
 - c) At a rate that is proportional to the amplitude of the incident radiation.
 - d) Only if the frequency of the incident radiations is above a certain threshold value.
-

Q6. Propane is used instead of natural gas on many farms and in rural areas. Why is propane often used instead of natural gas?

- a) It's portable
 - b) It's cleaner
 - c) It's safer
 - d) It's cheaper
-

Q7. Which one among the following radiations carries maximum energy?

- a) Gamma-rays
 - b) X-rays
 - c) Ultraviolet rays
 - d) Infra-red rays
-

Q8. Repeaters used in telephone links are:

- a) Oscillators
 - b) Amplifiers
 - c) Rectifiers
 - d) Transformers
-

Q9. Consider the following statements in respect of India advanced satellite INSAT-4A:

- INSAT-4A was launched in December, 2005 from New Mexico.
- The European Commercial Launch Service Provider Arianespace was associated with the launch of INSA T-4A.
- Tata-Sky; a digital cable service provider; is associated with DTH television broadcasting service from INSA T 4A.

Which of the statements given above are correct?

- a) 1 and 2
 - b) 2 and 3
 - c) 1, 2 and 3
 - d) 1 and 3
-

Q10. Solar cells generate little amount of electricity, but are becoming popular because

- a) it can be set up in remote and inaccessible hamlets without laying transmission lines
 - b) electricity generated from solar cells can be stored and used when required
 - c) its raw material Silicon is available in large quantities in India
 - d) All of these
-

Q11. Select the correct statement(s) from the following.

- In conductors, the valence and conduction bands may overlap.
- Substances with energy gap of the order of 10 eV are insulators.
- The resistivity of a semiconductor increases with increase in temperature.
- The conductivity of a semiconductor increases with increase in temperature.

a) I and III only

b) I, II and IV

c) I and II only

d) I, II, III and IV

Q12. Match the Column I and Column II.

Column I	Column II
A. Isotopes	1. Mass number same but different atomic number.
B. Isobars	2. Atomic number same but different mass number.
C. Isotones	3. Number of neutrons plus number of protons.
D. Nucleons	4. Number of neutrons same but different atomic number.

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

a) (A) ? (2); (B) ? (1); (C) ? (4); (D) ? (3)

b) (A) ? (1); (B) ? (2); (C) ? (3); (D) ? (4)

c) (A) ? (3); (B) ? (1); (C) ? (2); (D) ? (4)

d) (A) ? (1); (B) ? (3); (C) ? (2); (D) ? (4)

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Q13. Which one of the following is the correct sequence of the wavelengths of radiations ?

a) IR > Green > UV > Hard X-rays

b) UV > Hard X-rays > IR > Green

c) UV > Green > IR > Hard X-rays

d) IR > Hard X-rays > Green > UV

Q14. Consider the following statements: A person in a spaceship located half way between the earth and the sun will notice that the :

- sky is jet black.
- stars do not twinkle.
- temperature outside the spaceship is much higher than that on the surface of the earth.

Which of the statement(s) given above is/ are correct?

a) 1 and 2

b) 1 and 3

c) 3 only

d) 1, 2 and 3

Q15. Television signal cannot be received generally beyond a particular distance due to

a) weakness of antenna

b) weakness of signal

c) curvature of the Earth

d) absorption of signal in air

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Answers to the above questions :

Q1. Answer: (d)

Q2. Answer: (c)

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

- Photon is a packet of energy emitted from a source of radiations.
- Nucleons are consist of neutrons and protons.
- The minimum energy required to liberate the electrons from the metal surface, is called work function.

Q3. Answer: (a)

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Q4. Answer: (c)

Q5. Answer: (d)

Photoelectrons are emitted if the frequency of incident light is greater than the threshold frequency.

Q6. Answer: (a)

Q7. Answer: (a)

Q8. Answer: (b)

Q9. Answer: (b)

Statement '2' & '3' is correct, but '1' is incorrect. Because INSAT-4A was launched on 22 December 2005 from French Guiana.

Q10. Answer: (d)

Q11. Answer: (b)

Q12. Answer: (a)

Q13. Answer: (a)

IR > Green > UV > Hard X-rays

Q14. Answer: (d)

There is a presence of atmosphere at earth's surface which consists of thick and moving layers of air. The dust particles, particulates, smog, water vapour and smoke are also present in air.

Stars twinkle when we see them from the Earth's surface because we are viewing them through thick layers of turbulent (moving) air in the Earth's atmosphere.

As their light travels through the many layers of the Earth's atmosphere, the light of the star is bent (refracted) many times in random directions (light is bent when it hits a change in density –like a pocket of cold air or hot air). This random refraction results in the star as its twinkling but for a person in spaceship no such refractions are possible as there is vacuum in space.

Thus, star will not twinkle.

Similarly, sky will appear blue to us due to Rayleigh scattering which is again due to presence of atmosphere on earth's surface. The shorter wavelength light is absorbed by the gas

molecules of atmosphere. The absorbed blue light is then radiated in different directions. It gets scattered all around the sky. Some of this scattered blue light reaches you.

Since, you see , the sky looks blue. Whereas no atmosphere is there in space thus, no absorbing and scattering is possible that's why for a person in spaceship sky appears black.

Temperature outside the spaceship is higher in comparison to earth's surface because of being nearer to sun.

Q15. Answer: (c)

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