

BIOPHYSICS

Multiple Choice Questions & Answers

1. The Emission of energy in form of emitted particles, the action known to be

- A. Emulsification
- B. Ionization
- C. Reaction
- D. Radiation

ANSWER: D

2. Osmosis is an action in which:

- A. the solvent spontaneously passes through a semi-permeable membrane into a solution with higher concentration of the dissolved matter until reaching osmotic balance
- B. the solvent spontaneously passes through a semi-permeable membrane into a solution with lower concentration of the dissolved matter
- C. particles of the dissolved matter spontaneously pass through a semi-permeable membrane into the solution
- D. a total separation between the solution and the solvent takes place

ANSWER: A

3. Which of the following wavelengths of light is most effective for photosynthesis

- A. 100 nm to 200 nm
- B. 200 nm to 300 nm
- C. 400 nm to 700 nm
- D. 700 nm to 900 nm

ANSWER: C

4. Radiocarbon is produced in the atmosphere as a result of

- A. collision between fast neutrons and nitrogen nuclei present in the atmosphere
- B. action of ultraviolet light from the sun on atmospheric oxygen
- C. action of solar radiations particularly cosmic rays on carbon dioxide present in the atmosphere
- D. lightning discharge in atmosphere

ANSWER: A

5. It is easier to roll a stone up a sloping road than to lift it vertical upwards because

- A. work done in rolling is more than in lifting
- B. work done in lifting the stone is equal to rolling it
- C. work done in both is same but the rate of doing work is less in rolling
- D. work done in rolling a stone is less than in lifting it

ANSWER: D

6. Mercury is commonly used as a thermometric fluid rather than water because

- A. specific heat of mercury is less than water
- B. specific heat of mercury is more than water
- C. mercury has greater visibility than water
- D. density of mercury is more than the water

ANSWER: C

7. Rainbow is due to

- A. absorption of sunlight in minute water droplets
- B. diffusion of sunlight through water droplets
- C. ionisation of water deposits
- D. refraction and reflection of sunlight by water droplets

ANSWER: D

8. Sir C.V. Raman was awarded Nobel Prize for his work connected with which of the following phenomenon of radiation

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- A. Scattering
- B. Diffraction
- C. Interference
- D. Polarization

ANSWER: A

9. Radiocarbon dating technique is used to estimate the age of
- A. Rocks
 - B. Fossils
 - C. Tree
 - D. Leaf

ANSWER: B

10. Identify the vector quantity from the following
- A. Heat
 - B. Angular momentum
 - C. Surface tension
 - D. Viscosity

ANSWER: B

11. Linear inhibition is sometimes called as
- A. complete inhibition
 - B. incomplete inhibition
 - C. partial inhibition
 - D. mixed inhibition

ANSWER: A

12. The types of inhibition pattern based on Michaelis-Menten equation are
- A. competitive
 - B. non-competitive
 - C. uncompetitive
 - D. all the above

ANSWER: D