

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
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: D

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
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: C

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