

- 1 question number Composting is nature's way of recycling. The is Composting biodegrades organic waste i.e. food waste, manure, are leaves, grass trimmings, paper, wood, feathers, crop residue, etc., and turns it into a valuable organic fertilizer. In agriculture, green manure is created by leaving uprooted or sown crop us parts to wither on a field so that they serve as mulch and and soil amendment. end of solution
- 2 question number The second law of motion gives us a method is to measure the force acting on an object as a product of its mass and acceleration. While catching a fast moving cricket ball, a fielder in the ground gradually pulls his hands backwards with the moving ball. Thus the rate of change of momentum of the ball will be large. end of solution
- 3 question number Cross breeding is the process of breeding with the intention to create offspring that share the traits of both parent lineages or to produce an animal with hybrid vigour (the improved or increased function of any biological quality in a hybrid offspring). end of solution
- 4 question number Tides are the rise and fall caused by the combined effects of the gravitational forces exerted by the Moon and the Sun, and the rotation of the Earth. end of solution
- 5 question number Because while the body moves in a circular path its velocity at a point is along the tangent drawn from that point which gives rise to the centrifugal force and in the case of a satellite the centripetal force is given force is given by the its velocity. end of solution
- 6 question number Because while the body moves in a circular path its velocity at a point is along the tangent drawn from



that point which gives rise to the centrifugal force and in the case of a satellite the centripetal force is given by the gravity of earth and centrifugal force is given by its velocity. end of solution

7 question number This is because the atmospheric carbon dioxide is fixed through natural processes like photosynthesis by plants and chemo-bio synthesis by marine animals. The inorganic carbon compounds are converted to organic carbonic compounds and later assimilated by living organisms, be it mutualistic, be commensalistic, or parasitic. The organisms, each termed a symbiont, may be of the same. The current amount of atmospheric  $\text{CO}_2$  about 409 ppm is already higher than normal levels. Hence reduction of  $\text{CO}_2$  is encouraged to prevent global warming. end of solution

8 question number Symbiosis is any type of a close and the long-term biological interaction between two different biological organisms, be it mutualistic, commensalistic, or parasitic. The organisms each termed a symbiont, may be of the same or different species. end of solution

9 question number Parasitism is a relationship between two things in which one of them (the parasite) benefits from or lives off of the other, like fleas on your dog. Parasitism and its host, parasite, come from para-, meaning "beside" or "next to," and site, meaning "sited" or "located." end of solution

10 question number The term saturated solution is used in chemistry to define a solution in which no more solute can be dissolved in the solvent. It is understood that the saturation of the solution has been achieved when

any additional substance that is added results in a solid precipitate or is let off as a gas. Solubility is a chemical property referring to the ability for a given substance, the solute, to dissolve in a solvent. It is measured in terms of the maximum amount of solute dissolved in a solvent at equilibrium. Certain substances are soluble in all proportions with a given solvent, such as ethanol in water.