

MODULE 1/3 BIOLOGY
WORKSHEET 01
CHAPTER 13
ORGANISMS AND POPULATIONS

Question 1. Autecology is the

- (a) relation of heterogeneous population to its environment
- (b) relation of an individual to its environment
- (c) relation of a community to its environment
- (d) relation of a biome to its environment.

Question 2. Ecotone is

- (a) a polluted area (b) the bottom of a lake
- (c) a zone of transition between two communities
- (d) a zone of developing community.

Question 3. Basic unit of ecological hierarchy is

- (a) population (b) community (c) ecosystem (d) individual.

Question 4.

Several plant and animal species present together at a place constitute a

- (a) genus (b) population (c) biome (d) community.

Question 5.

The branch of science which studies the interactions among organisms and between organisms and physical environment is called as

- (a) epidemiology (b) ecology (c) ethology (d) etiology

Question 6. Niche overlap indicates __

- (a) mutualism between two species
- (b) active cooperation between two species
- (c) two different parasites on the same host
- (d) sharing of one or more resources between the two species.

Question 7. Characteristics of a terrestrial biome are strongly influenced by its

- (a) flora (b) climate (c) fauna (d) all of these.

Question 8. _____ generally have shorter ears and limbs to minimise heat loss.

- (a) Allen's (b) Berger's (c) Borge's (d) Powell's

Question 9. Ecological niche is

- (a) the surface area of the ocean
- (b) an ecologically adapted zone
- (c) the physical position and functional role of a species within the community
- (d) formed of all plants and animals living at the bottom of a lake.

Question 10. Formation of tropical forests needs mean annual temperature and mean annual precipitation as

- (a) 18 – 25°C and 150 – 400 cm
- (b) 5 – 15°C and 50 – 100 cm
- (c) 30 – 50°C and 100 – 150 cm
- (d) 5 – 15°C and 100 – 200 cm.

Question 11. Why are coral reefs not found in the regions from West Bengal to Andhra Pradesh but are found in Tamil Nadu and on the east coast of India?

Question 12. If a fresh water fish is placed in an aquarium containing sea water, will the fish be able to survive? Explain giving reasons.

Question 13. Why do all the fresh water organisms have contractile vacuoles whereas , majority of marine organisms lack them?

Question 14. Define heliophytes and sciophytes. Name a plant from your locality that is either heliophyte or sciophyte.

Question 15. Why do submerged plants receive weaker illumination than exposed floating plants in a lake?