

**UNIT – 1**

1. The oxygen that keeps us alive is a product of photosynthesis. It comes from
  - a) Carbon dioxide
  - b) Carbonates absorbed from soil
  - c) Oxides of mineral elements
  - d) Water
  
2. Milk tastes sour when kept in the open for some time due to the formation of
  - a) Carbonic acid
  - b) Citric acid
  - c) Lactic acid
  - d) Malic acid
  
3. Prokaryotes are
  - a) Animals without well – developed nervous system
  - b) Organisms lacking a definite nucleus
  - c) Primitive plants without vascular systems
  - d) Plants that do not produce flowers and fruits
  
4. Honey that has a high concentration of sugar does not decay because
  - a) It contains natural antioxidant that prevents bacteria attack
  - b) Bacteria cannot survive in an active state in a solution of high osmotic strength as water is drawn out
  - c) Bacteria cannot survive in an active state as it is totally deprived of oxygen
  - d) None of these
  
5. The chromosome number in a bacterium is
  - a) 1
  - b) 2
  - c) 4
  - d) varies with species
  
6. A plant cell is distinguished from an animal cell by the presence of
  - a) Chloroplasts
  - b) Cell wall
  - c) Cell membrane
  - d) Nucleus
  
7. On chemical analysis, a bottle – cork is found to contain primarily
  - a) Carbohydrates
  - b) Lipids
  - c) Tannins
  - d) Proteins

8. Which of the following plant disease is caused by mineral deficiency?
- a) Heart rot of beets
  - b) Ring rot of potato
  - c) Red rot of sugarcane
  - d) Wilt of cotton
9. Which of the following organelles is termed the powerhouse of a cell?
- a) Chloroplasts
  - b) Golgi apparatus
  - c) Mitochondrion
  - d) Nucleus
10. Granum is a component of
- a) Chloroplasts
  - b) Golgi apparatus
  - c) Ribosomes
  - d) Starch grains
11. In plant cell, DNA is found in
- a) Chloroplasts
  - b) Mitochondria
  - c) Nucleus
  - d) All these
12. Cell sap is
- a) A dilute solution of minerals and some organic substances in the vacuole
  - b) A dilute solution of minerals in water absorbed by the plant from the cell
  - c) Exudate from the cell
  - d) A solution of different organic substances dissolved in the cytoplasm
13. The edible is a fruit in which one of the following crops?
- a) Coconut
  - b) Groundnut
  - c) Pea
  - d) Wheat
14. The virus that infects a bacterium is
- a) Arbovirus
  - b) Viraemia
  - c) Bacteriophage
  - d) Baclofen
15. Binomial nomenclature refers to
- a) Naming a plant/animal twice
  - b) Scientific naming of an organism consisting of two words
  - c) Two names of a living organism – scientific name and a local name
  - d) Two phases in the life of an organism

16. To which group of plants does the banyan tree belong?
- a) Angiosperms
  - b) Gymnosperms
  - c) Pteridophytes
  - d) Pheophyta
17. A liverwort is
- a) An animal parasite infecting the liver
  - b) A land plant without differentiation into root, stem and leaves
  - c) A kind of bacterium infecting the liver
  - d) A plant with its flowers shaped like the human liver
18. "Flame of the forest" refers to
- a) A lady with flame in her hands found in the forest
  - b) A forest full of trees which burst with red flowers during autumn
  - c) A fire always found in some jungles
  - d) The little of a book
19. A herbarium is
- a) A collection of herbs in dried form
  - b) A garden with a varied collection of herbs
  - c) A garden with a collection of medicinal herbs
  - d) A centre for the preservation of dried specimen of plant
20. Taxonomy is a science dealing with the
- a) Classification of all living organisms
  - b) Classification of plants
  - c) Identification, nomenclature, and classification of all living organisms
  - d) Structure and function of living organisms
21. The widely used antibiotic, penicillin, is produced by
- a) An alga
  - b) A bacterium
  - c) A fungus
  - d) Synthetic means
22. Lichen is considered to be a symbiotic association of two living organisms. Which organisms are involved in it?
- a) Algae and bacteria
  - b) Algae and fungi
  - c) Algae and bryophytes
  - d) Fungi and bryophytes

23. Agar, commonly used as a synthetic growth medium and in bakery, is obtained from

- a) Algae
- b) Mosses
- c) Cycas
- d) Pine

24. Which of the following human disease/s is/are caused by a mutant gene?

- a) Hemophilia
- b) Sickle cell anaemia
- c) Thalassemia
- d) All the above

25. Which of the following shows a taxonomically closely – related group?

- a) Earthworm, ringworm, tape – worm
- b) Silverfish, cuttlefish, starfish
- c) Housefly, dragonfly, butterfly
- d) Sea horse, sea anemone, sea urchin

26. Which scientist was responsible for binomial nomenclature?

- a) Darwin
- b) Hooker
- c) Theophrastus
- d) Linnaeus

27. Which of the following is not a parasite?

- a) Louse
- b) Mosquito
- c) Tick
- d) Housefly

28. Which of the following moves the fastest?

- a) Bath sponge
- b) Sea anemone
- c) Amoeba
- d) All these

29. The bird without cloaca is the

- a) Duck
- b) Pigeon
- c) Parrot
- d) None of these

30. Yellow proteins are

- a) Flavoproteins
- b) Xanthophylls
- c) Carotenes
- d) All of above

