

Class: 7  
Subject: Biology  
Topic: Nutrition In Plants  
No. of Questions: 20  
Duration: 60 Min  
Maximum Marks: 60

**1 Which one of the following is a not a nutrient?**

- a) Carbohydrates
- b) Fats
- c) Vitamins
- d) Chlorophyll**

**2 Most cells have a distinct, centrally located spherical structure. What is that structure called?**

- a) Cell Membrane
- b) Nucleus**
- c) Cytoplasm
- d) Stomata

**3 Which cells surround the stomata?**

- a) Guard cells**
- b) Chitin
- c) Chlorophyll
- d) All of the above

**4 \_\_\_\_\_ is the ultimate source of energy for all living organisms.**

- a) Soil
- b) Air

c) Sun

d) Water

**5 Besides leaves, photosynthesis also takes place in other green parts of the plant such as**

a) Roots and root hairs

b) Flowers

c) Bark of the tree

**d) Green stems and green branches**

**6 The desert plants have scale- or spine-like leaves to reduce loss of water by**

**a) Transpiration**

b) Photosynthesis

c) Osmosis

d) Diffusion

**7 Which part of desert plant carries out photosynthesis?**

a) Spiny leaves

b) Roots

**c) Stems**

d) Photosynthesis does not take place in desert plants

**8 Some plants with deep red, violet or brown leaves also perform photosynthesis. The correct explanation for this is**

a) Leaves other than green color also have chlorophyll

b) The large amount of red, brown and other pigments mask the green color

c) Stems perform photosynthesis in these plants

**d) Both a and b**

**9 Apart from green plants which plants also perform photosynthesis?**

- a) **Algae**
- b) Fungi
- c) Animals
- d) Insects

**10 Plants can synthesize components of food other than carbohydrates such as**

- a) Sugars
- b) Proteins and fats**
- c) Minerals and vitamins
- d) None of the above

**11 Which of the following helps to convert gaseous nitrogen into a usable form and release it into the soil?**

- a) Bacteria**
- b) Viruses
- c) Mosquitos
- d) All of the above

**12 To fulfill the requirement of different nutrients farmers add \_\_\_\_\_ to the soil.**

- a) Pesticides
- b) Weedicides
- c) Fertilizers**
- d) None of the above

**13 Which of the following is a parasitic plant?**

- a) Mango
- b) *Chara*
- c) *Cuscuta***
- d) Banyan

**14 Which of the following is an insectivorous plant?**

- a) Pitcher plant**
- b) *Cuscuta*

- c) Legumes
- d) Cereals

**15 Saprotrophic nutrition is**

- a) In which organisms make their own food
- b) **This mode of nutrition in which organisms take in nutrients in solution form from dead and decaying matter**
- c) In which organisms eat other organisms
- d) None of the above

**16 Which of the following is a saprotroph?**

- a) Algae
- b) Bacteria
- c) Protozoa
- d) **Fungi**

**17 Which type of condition is required for growth of fungi?**

- a) Cold
- b) Hot
- c) Humid
- d) **Both b and c**

**18 Some organisms live together and share shelter and nutrients. This is called**

- a) **Symbiotic relationship**
- b) Parasitic relationship
- c) Decomposition
- d) None of the above

**19 Lichens are**

- a) **An association between alga and fungus**
- b) An association between bacteria and plants
- c) An association between plants and alga
- d) An association between plants and fungi

**20** The bacterium called \_\_\_\_\_ can take atmospheric nitrogen and convert it into a soluble form.

- a) Cyanobacteria
- b) Streptomyces
- c) Clostridium
- d) Rhizobium**

#### ANSWER KEY

- 1. D- Chlorophyll is not a nutrient, it is a pigment.**
- 2. B- Nucleus is the centrally located spherical structure in the cell.**
- 3. A- Guard cells** are specialized cells in the epidermis of leaves, stems and other organs that are used to control gas exchange. The guard cells are produced in pairs with a gap between them that forms a stomal pore
- 4. C- Sun is required for the process of photosynthesis, through which the plants make their food. The energy is then transferred to the animals that eat the plants.**
- 5. D- The green stems and other green parts of plants also possess chlorophyll.**
- 6. A- The loss of water through the leaves in the form of water vapor is known as transpiration.**
- 7. C-The leaves of plants are spine shaped to prevent transpiration. Therefore, the process of photosynthesis is carried out by their green stems.**
- 8. d**
- 9. a- Algae also perform photosynthesis because they possess chlorophyll just like the plants.**
- 10. C-Plants synthesize proteins and fats apart from carbohydrates.**
- 11. A- There are bacteria in the roots of some plants that convert nitrogen into some usable form so that it can be used by the plants.**
- 12. C- Fertilizers are the chemicals that add nutrients to the soil.**
- 13. C- Chara is an alga. Mango and Banyan are trees.**
- 14. a**
- 15. b**
- 16. d- Fungi feed on dead and decaying matter.**
- 17. d**
- 18. a**
- 19. a-Lichens are symbiotic association between alga and fungus.**
- 20. d**