

Answer the following questions: -

Q1: - Count each of the following:

- 1- Double-membraned organelle in plant cell.
- 2- Classes of bryophyte plant.
- 3- Meristematic tissue According to the position.
- 4- Plastids on the basis of their colour.
- 5- Major ergastic substances in plant cell.

Q2:- What is the alternation of generations in plant, then draw it in a diagram.

Q3:- Draw the plastid and label its parts.

Q4 :-Write the importance and uses of the plants.

Q5:- Define the following terms:

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|----------------------|-------------------|-------------------|-----------------|
| 1) Amphibians plants | 2) Simple tissues | 3) Plant taxonomy | 4) Cytoskeleton |
| 5) Epizoic | 6) Gemmae | 7) Hyaloplasm. | |

Q6:- Write two functions for each the following terms:

- 1- Vacuoles
- 2-Golgi apparatus or Dictyosomes
- 3- Cell wall

Q7: -Write the main divisions of plant kingdom.

Q8:- Fill each the following blanks.

- 1- All living organisms are classified within five biological kingdoms which includes: 1....., 2....., 3....., 4....., and 5.....
- 2- Depending on the number of cotyledons present in seeds, angiosperms are divided into both of.....and plants.
- 3- The study of cells by microscope is known as.....
- 4- Plastids on the basis of their colour, are classified into 1....., 2, and 3.....
- 5- Endoplasmic reticulum define as.....
- 6- According to the latest recommendations of the international code of botanical nomenclature, the bryophytes have been divided into three classes which include 1....., 2....., and 3.....

Q9:-Write Economic importance of algae.

Q10: - What is Botany? then count the Common branches of botany.

Q11: -Count the Specialized habitats of Thallophytes plants.

Q12:-What we mean by phycology or algology.

Q13:- Write the most important Characteristic features of Bryophytes.

Q14:- Write differences between monocot and dicot plant.

Q15:- Write the most important Characteristic features of angiosperm plants.

Q16:- classify Plant tissue according to their ability of division.

Q17:- Count the main classes of PTERIDOPHYTES.

Q18: - Count types of Leucoplast, then write the function of each one.

Q19: -What is the dominant phase in the life cycle in each of Bryophytes and pteridophytes plant.

Q20: - Count the classes of pteridophytes plant.

Q21: - Write The difference between plant cells and animal cells.

Q22: - Write the function of each Apical meristems, Lateral meristems and Intercalary meristem.

Q23: - Explains each the following terms Gemmae, antheridium, archegonium and rhizoids.

Q24: - What we mean by amphibians plants.

Q25: - count the types of crystals made of calcium oxalate.

Q26: - Explains Cystolith CaCO_3 Crystal.

Q27: -Count only non-living components of plant cell.

Q28: - define Microbodies, then count the types of Microbodies and write the function each one.

Q29: - Count only the biological kingdoms of living organisms.

Q30: - Write the most important Characteristic features of Gymnosperms plants.