**Examination of theoretical botany Name:**

**Time: 1h. Group:**

**Q1/Multiple choice: Choose the correct letter (a, b or c):**

1. ……….. the anatomy study of cells and tissues in plants and animals.
2. Taxonomy b. Microbiology c. Histology
3. ………… Study of fossil which are the remains of plants and animals.
4. Anatomy b. Physiology c. Paleontology
5. Plants develop from ……….. which formed by a fusion of egg and sperm cells.
6. Stem b. Embryo c. Root
7. ………. woody plant with several main stems arising from the ground level.
8. Shrubs b. Trees c. Herbs
9. ………… are plants or plants like organisms that produce spores.
10. Cryptogams b. Gymnosperm c. Angiosperm
11. The seeds of angiosperms are enclosed within the ……………
12. Flower b. Leaf c. Fruit
13. ………….. provide energy by breaking down carbohydrate and sugar molecules
14. Mitochondria b. Chloroplast c. Vacuoles
15. ………….. play an important role in protein synthesis
16. Lysosome b. Ribosome c. Cell wall
17. Plants are the earth's main autotrophs and fixers of carbon and ……...
18. Oxygen b. Sulfur c. Nitrogen
19. In ………. a German botanist A.W Eichler divided the whole plant kingdom into two subkingdoms Spermatophyte and Cryptogams.
20. 1883 b. 1983 c. 1783

**Q2/ True or False: Write True or False in front of each statement:**

1. Cell biology is the Study of the embryostructure and its development.
2. Physiology is the study of the external feature of the living organisms.
3. Plants are unicellular organisms in the kingdom Plantae.
4. Plants are heterotrophs; they produce their own food by photosynthesis.
5. Plants have determinate growth.
6. Terrestrial Plant are Plants that are growing on water environment**.**
7. Phanerogamsplants do not have a well-developed vascular system.
8. Dicot plant has flower parts in four or five or multiples of four or five.
9. Leucoplasts provide color to all fruits and flowers**.**
10. Plants provide the habitat and food upon which almost all other living things.

**Q3/ Count only**

1. Plant habit according to the general appearance
2. Plant life cycles
3. Plastid types

**Q4/ Write the differences between:**

1. Angiosperm and gymnosperm in their seeds
2. Dicot and Monocot plants in their leaf veins
3. Phanerogams and Cryptogams in their producing of seed

**Q5/ Write the function of the following organelles:**

1. Chloroplast
2. Rough endoplasmic reticulum