**ASSIGNMENTS**

**BIOLOGY**

**Chapter 03:** Plant Kingdom **Class: XI**

***General Instructions***

**…………………………………………………………………………………………………………………………………………………**

*1. All questions are compulsory.*

*2. Question1 to 10 is multiple choice questions.*

*3. Question 11 to 15 is short answer questions.*

*4. Question 16 to 20 is long answer questions.*

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1. Which plant kingdom can survive both on land and in water?

1. Tracheophyta
2. Pteridophyta
3. Thallophyta
4. Bryophyta

2. A plant that has seeds but no flowers and fruits?

1. Bryophyte
2. Gymnosperms
3. Mosses
4. Pteridophyte

3. Most primitive vascular plants?

1. Mosses
2. Cycads
3. Kelps
4. Ferns

4. Angiosperms are the dominant flora because of

1. Domestication by man
2. Power of adapting in diverse habitats
3. Self-pollination property
4. Property of producing a large number of seeds

5. Plants having vascular tissue without seeds

1. Angiosperm
2. Pteridophyte
3. Bryophyte
4. Gymnosperms

6. The plant group that posses largest ovule, largest gametes, and largest tree

1. Angiosperms
2. Gymnosperms
3. Pteridophytes
4. Bryophytes

7. A colonial alga is

1. Volvox
2. Chlorella
3. Ulothrix
4. Spirogyra

8. Double fertilization is the characteristic of

1. Algae
2. Gymnosperms
3. Fungi
4. Angiosperms

9. First plants to inhabit land

1. Angiosperms
2. Bryophytes
3. Gymnosperms
4. Pteridophytes

10. Agar is commercially obtained from

1. Blue-green algae
2. Red algae
3. Brown algae
4. Green algae

11. Describe the phylogenetic classification systems.

12. Why is the endosperm of angiosperms triploid?

13. Write any four characteristics features of pteridophyte.

14. Bring out the major differences between monocotyledons and dicotyledons.

15. Mention economic importance of algae.

16. What is double fertilization? Who discovered it? Explain the event and its possible significance.

17. Give a comparative account of

(a) The nature of cell wall and

(b) The characteristics of flagella among the three classes of algae.

18. In which plant will you look for mycorrhiza and coralloid roots? Also explain what these terms mean

19. What is meant by?

(a) Cytotaxonomy

(b) Chemotaxonomy

(c) Numerical taxonomy and

(d) Heterosporous ferns

20. Draw a diagram of

(a) Haplontic life cycle

(b) Diplontic life cycle and

(c) Haplo-diplontic life cycle.