

Assignment

Class:12

Subject: BOTANY

Unit 1

**CHAPTER – 1
PART - A**

I. Multiple Choice Questions

1. An eminent Indian embryologist is

- a) S.R. Kashyap b) P. Maheshwari
c) M.S. Swaminathan d) K.C. Mehta

2. The size of pollen grain in *Myosotis*.....

- a) 10 micrometer b) 20 micrometer
c) 200 micrometer d) 2000 micrometer

3. The nuclear structure in the mature embryo sac of dicot plant is

- a) 2+4+2 b) 3+2+3
c) 2+3+3 d) 3+3+2

4. The scar left by funiculus in the seed is....

- a) tegmen b) Radicle
c) Epicotyl d) Hilum

5. Parthenocarpic fruits lack.....

- a) Endocarp b) Epicarp c) Mesocarp d) Seed

6. The term apomixes was first introduced by

- a) Maheswari b) Amici
- c) Strasburger d) Winkler

7. The correct order of haploid, diploid and triploid structure in fertilized embryo sac is

- a) Synergid, Zygote and PEN
- b) Synergid, antipodal and polar nuclei
- c) antipodal, Synergid and PEN
- d) Synergid, polar nuclei and zygote.

8. Coleorhiza is found in

- a) paddy b) Bean
- c) pea d) Tridax

9. French weight of an orchid seed

- a) 21.33 mg b) 18.01 mg
- c) 19.43 mg d) 20.33mg

10. The first case of polyembryony was reported by

- a) Anton Von Leeuwenhoek b) Linnaeus
- c) Robert Brown d) Mendel

PART - B

II. Very Short Answer.

1. What is pollinium?
2. What is Cryopreservation?
3. Write short notes on pollenkit.
4. What are the functions of endosperm?
5. Draw the structure of dicot seed and label the parts.

PART – C

III. Short Answer

1. List out the functions of tapetum.
2. “The endosperm of angiosperm is different from gymnosperm”, do you agree. Justify your answer
3. Account on “ aleurone tissue”
4. Draw the structure of an ovule and label the parts.
5. Dicot and Monocot difference (any 3 points)

PART – D

IV. Write in detail.

1. With a suitable diagram explain the structure of an ovule
2. Differentiate the structure of dicot and monocot seed.