

# Assignment

Class:12

Subject: BIO-BOTANY

## UNIT -1 PART - A

### I. Multiple Choice Questions

1.Size of the pollen grain in mytosis

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

2.Which of the following represent Megagametophyte

- a) Ovule                  b) Embryo sac
- c) Nucellus              d) Endosperm

3.Coelorrhiza is found in\_\_\_\_\_

- a) Paddy                  b) Bean
- c) Pea                      d) Tridax

4.Choose the correct statement(s) about tenuinucellate ovule.

- a) Sporogenous cell is hypodermal
- b) Ovules have family large nucellus
- c) Sporogenous cell is epidermal
- d) Ovules have single layer of nucellus tissue

5. An eminent Indian embryologist is \_\_\_\_\_

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

6. Parthenocarpic fruits lack

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

7. Which of the following plant pollinium is seen

- a) Hibiscus    b) Datura
- c) Calotropis    d) Ricinus

8. In which types of ovules horse-shoe shaped nucellus is seen

- a) Amphitropous    b) Campytropous
- c) Anthropous      d) Orthoporous

9. Pollination by birds is called \_\_\_\_\_

- c) Embryogenesis    d) Organogenesis

10. \_\_\_\_\_ is used in Cryopreservation technique

- a) Liquid mercury    b) Liquid Helium
- c) Liquid CO<sub>2</sub>      d) Liquid Nitrogen

## PART - B

### II. Very Short Answer.

1. What is sexual reproduction ?
2. Define the term diplospory?
3. What is pollinium ?
4. What is stomium ?
5. What is sporopollenin?

## PART – C

### III. Short Answer

1. List any two strategy adopted by bisexual flowers to prevent self pollination .
2. "The endosperm of angiosperm is different form gymnosperm".Do u agree.Justify your answer.
3. " Enthoecium is associated with disiscence of another " Justify the statement.
4. Pollination in Gymnosperms is different from Angiosperms"-Give reasons
5. Dicot and Monocot difference(any 3 points)

## PART – D

### IV. Write in detail.

1. Give a detailed account on parthenography add a note on its significance
2. What is endosperm, Explain the types