

Total No. of Printed Pages: 2

**SUBJECT CODE NO: - YY-2348**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. F.Y (Sem- II)**  
**Examination March / April - 2023**  
**Botany Paper-V Histology, Anatomy & Embryology Paper-IV**

[Time: 1:30 Hours]

[Max. Marks: 40]

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All question carry-equal marks.
- 3) Draw neat diagram and give labels where ever necessary.

Q1 Define tissue? Describe the simple permanent tissue in plants. 10

**OR**

Explain in Brief.

- a) L. S. of shoot apex.
- b) Nectarines and oil glands.

Q2 Describe secondary growth in sunflower stem. 10

**OR**

Explain in Brief.

- a) Annual rings.
- b) Periderm

Q3 write short notes on. (Any Two) 10

- a) cellular endosperm.
- b) contrivances for Self Pollination
- c) structure of monocot seed.

Q4 Multiple choice questions 10

1. There are three types of meristematic tissue, apical \_\_\_\_\_ Lateral.
  - a) Simple    b) complex    c) Intercalary    d) vascular
2. Permanent tissues are classified into \_\_\_\_\_ types.
  - a) One    b) Two    c) Three    d) four
3. Tunica corpus theory was put forth by \_\_\_\_\_.
  - a) Nageli    b) Schmidt    c) Hanstein    d) Eames.
4. Guard cells controls the opening and closing of \_\_\_\_\_.
  - a) Digestive gland    b) stomata    c) Trichomes    d) Nectarines
5. In \_\_\_\_\_ types of Parenchymatous tissue chloroplast is found.
  - a) xylem    b) chlorenchyma    c) Sclerenchyma    d) Phloem.
6. \_\_\_\_\_ is also known as ground tissue.
  - a) Epidermis    b) Endodermis    c) cortex    d) cambium
7. Casparian strips are present in \_\_\_\_\_.
  - a) Endodermis    b) Hypodermis    c) Pericycle    d) Epidermis

8. In Angiosperms \_\_\_\_\_ functions as male gametophyte.  
a) Pollen grains    b) Nucellus    c) ovules    d) stamens
9. A set of three nuclei present at micropylar end in embryo sac are \_\_\_\_\_  
a) Polar nuclei                      b) synergids and egg  
c) Antipodal cells                      d) None of these
10. Pollination takes place through the agency of water is called as \_\_\_\_\_  
a) Anemophily    b) Hydrophily    c) Zoophily    d) Entomophily