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**SUBJECT CODE NO:- D-2053**  
**FACULTY OF SCIENCE & TECHNOLOGY**  
**B.Sc. F.Y. (Sem-II)**  
**Examination November/December- 2022**  
**Botany Paper-V**  
**Histology, Anatomy and Embryology**

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B
1. Attempt all questions
  2. Draw neat and well labelled diagram wherever necessary.
- Q.1 Describe in brief permanent tissue and give a detail account of xylem 20
- OR
- Explain in detail the primary structure of dicot root 20
- Q.2 Describe the process of double fertilization. Add a note on its significance. 20
- OR
- Write Short notes on (Any your) 20
- a) Sclerenchyma
  - b) characteristics of Meristematic cells
  - c) T. S. of Monocot leaf
  - d) Heart wood & sapwood
  - e) zoophily
  - f) Monocot seed
- Q.3 Multiple choice questions 10
1. The leaf and stem epidemics is occurred with pares called.....
    - a) Trichrome
    - b) stomata
    - c) Guard cell
    - d) Hole
  2. Apical cell theory proposed by.
    - a) Nageli
    - b) Hanstein
    - c) Crick
    - d) None of these

3. Protective Secondary covering of certain plants, especially woody plants is called
  - a) cortex
  - b) Periderm
  - c) Endodermis
  - d) Guard cells
4. In seed plants .... is the structure that give rise to seed.
  - a) Anther
  - b) Gametes
  - c) ovule
  - d) None of these
5. \_\_\_\_ Occurs within a Closed flower
  - a) Cross Pollination
  - b) self-Pollination
  - c) Both A & B
  - d) None of above
6. In..... embryo has an axis and the two cotyledons are on either side in opposite direction
  - a) dicot
  - b) Monocot
  - c) Both A&B
  - d) None of above
7. The Phloem in the monocot Stem consists of ..... and companion cells
  - a) Parenchyma
  - b) sclerenchyma
  - c) dine tubes
  - d) vessels.
8. According to korper-kappe theory there are two regions, outer and enter the cells divide in a pattern known as ...
  - a) 'y' division
  - b) 'L' division
  - c) cell division
  - d) 'T' division.
9. The ..... that occurs in the cells of the permanent tissue is fairly at lower side
  - a) Respiration
  - b) photosynthesis
  - c) Glycolysis
  - d) Metabolism
10. Sieve tubes are suited for translocation of food because they possess.
  - a) Bordered pit
  - b) No end walls
  - c) Broader lumen & Pea orated cross walls
  - d) No protoplasm.