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## M.Sc. II Semester Degree Examination, September/October - 2022 BOTANY

## 21BOT2C4P: Plant Anatomy & Histochemistry

Time: 3 Hours Maximum Marks: 70 **Note:** Answer **any five** of the following questions with question No. 1 is **Compulsory**. 1. Discuss anatomical features of leaf & stem of Amaranthus viridis. 14 Discuss in detail apical meristems in pteridophytes with examples. 2. 14 Explain stages of anamalous secondary growth in monocots. 3. 14 4. What is Double staining technique? Explain in detail procedures of double staining 14 technique. Discuss in detail the role of Carnoy's fluid, FAA, Safranin, fast green in staining 5. of plant tissue. 6. (a) Anatomical features of leaf of Nerium 4 Ultrastructure of cell wall (b) 5 (c) Secondary xylem of cycas sps. 5 **7.** Principles of histochemical stains 4 (a) C4 photosynthesis (b) 5 TBA method of staining 5 (c) Transverse Section of stem of Nyctanthes arbor tristis 8. (a) 5 Chemistry of cell wall 4 (b) Vascular cambium 5 (c)