

V P and R P T P Science College
First internal examination , 2016
Subject : BOTANY, Semester Five



Course: US05CBOT02
Marks: 25

DAY: Friday
DATE: 30.9.2016
Time: 11 – 12.30 pm

Q.1. Answer all questions: (03)

(i) In which of the following tissue ray parenchyma cells are absent?

- (a) Primary phloem (b) Procambium
(c) Secondary xylem (d) All of these

(ii) Sunken stomata occur in:

- (a) *Capparis* stem (b) *Mangifera* leaves
(c) *Bignonia* stem (d) *Typha* leaves

(iii) What can be the possible role of Pappus (modified calyx) in some Plants of Asteraceae?

- (a) Seed dispersal (b) Protection of seed
(c) Both (d) Additional weight to seeds

Q.2. Short answer questions. Attempt any two only. (04)

- (i) Show your acquaintance with Apical cell theory.
(ii) Write a small paragraph on "importance of seed dispersal" in plants.
(iii) How will you identify a hydrophyte stem?

Q.3. What are ergastic inclusions? Give a complete list of various types of Ergastic inclusions. Give one example for each type. (06)

OR

Q.3. Describe the structure of Phloem in brief. (06)

Q.4. Write short notes on: (a) Pollen grain (b) Pollen allergy (06)

OR

Q.4. Write short notes on : (a) Mesocarp (b) Anemochory (06)

Q.5. Describe the anatomical adaptation in Xerophytes. (06)

OR

Q.5. Explain the following: (a) Aerenchyma (b) Velamen (06)

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Evolve