

**V.P. & R.P.T.P.SCIENCE COLLEGE**  
**INTERNAL TEST**  
**B.Sc. 4<sup>th</sup> SEMESTER**  
**BOTANY US04EBOT01**

**Date- 12/03/2014**  
**Day- Wednesday**

**Marks-30**  
**Time-1.00-2.00p.m.**

- Q-1 Answer the following (any three) in short. (06)
- (i) Differentiate between fibre and sclereids.
  - (ii) Write the functions of xylem and phloem.
  - (iii) Write the botanical names of any 2 plants belonging to the family Rubiaceae with their economic importance.
  - (iv) Write the types of placentation in the following families:  
 (a) Brassicaceae (b) Mimosaceae (c) Myrtaceae (d) Labiatae.
  - (v) What is the significance of transpiration ?
  - (vi) What is scarification? How can it be done?



- Q-2 (a) Distinguish between tracheid and vessel. (04)  
 (b) What is tissue? What are the chief features of collenchyma? (04)

**OR**

- Q-2 (a) What are the characteristics of Parenchyma? Give two examples of specialized Parenchyma cells along with their functions. (05)  
 (b) List different types of secondary wall thickenings found in tracheary elements. (03)

- Q-3 Describe the characters of family Fabaceae giving examples. (08)

**OR**

- Q-3 Describe the main floral characters of families Cruciferae and Caesalpiniaceae (08)

- Q-4 (a) Mention the deficiency symptoms of Nitrogen and Iron. (03)  
 (b) Explain the mechanism of stomatal transpiration. (05)

**OR**

- Q-4 (a) Distinguish between passive absorption of water and active absorption of water. (03)  
 (b) Describe the mechanisms of photophosphorylation in higher plants. (05)