

V.P. & R.P.T.P.SCIENCE COLLEGE

Internal Theory Exam

BOTANY-US04EBOT01



(Plant Histology, Taxonomy, Physiology and Genetics)

Date-8/3/2017

Marks-25

Day-Wednesday

Time-3.00-4.00 p.m.

Q-1 Multiple choice questions. (03)

(i) Apical meristem is \_\_\_\_\_ in position.

(a) Terminal (b) Basal (c) Lateral (d) Intercalary

(ii) Flower is Zygomorphic in:

(a) Papilionaceae (b) Myrtaceae (c) Cruciferae (d) Rubiaceae

(iii) Mendel conducted hybridization experiments with:

(a) Garden Pea (b) Wild Pea (c) Chick Pea (d) Pigeon Pea

Q-2 Answer the following (any two). (04)

(i) Name three permanent tissues found in a flowering plant. Write one function of each.

(ii) Describe the main floral characters of family: Euphorbiaceae.

(iii) Define: Linkage groups.

Q-3 Briefly describe the three categories of meristems classified on the basis of position. (06)

OR

Q-3(a) Distinguish between sieve cell and sieve tube. (03)

(b) What are the functions of parenchyma cells? (03)

Q-4 Explain identifying characteristics of family Cruciferae. Give economic importance of any four plants belonging to the family. (06)

OR

Q-4 Compare the floral characters and write the floral formulas of the three subfamilies of Leguminosae. (06)

Q-5 Describe monohybrid and dihybrid crosses as explained by Mendel. (06)

OR

Q-5(a) Write the salient features of crossing over. (03)

(b) Explain incomplete dominance giving suitable example. (03)