

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

Internal Theory

BOTANY-US04CBOT01

(Higher Cryptogams, Pharmacognosy and Environmental Biology)

Date-15/3/2016

Time:3.00-4.30 p.m.

Day-Tuesday

Marks-25

Q-1 Multiple choice questions. (03)

(1) Protonema is found in:

(a) Marchantia (b) Riccia (c) Anthoceros (d) Pogonatum

(2) Ligulate leaves are found in:

(a) Lycopodium (b) Marsilea (c) Equisetum (d) Selaginella

(3) Excessive aerenchyma is characteristic of:

(a) heliophytes (b) xerophytes (c) mesophytes (d) hydrophytes

Q-2 Answer the questions in short (any two). (04)

(1) Compare the sporophytes of Notothylus with Marchantia.

(2) Write the hydrophytic characters of Marsilea.

(3) Write a note on the components consumers of an ecosystem.



Q-3 (a) Describe the structure of sporophyte of Pellia. (03)

(b) Describe the structure of sex-organs of Notothylus. (03)

OR

Q-3 Describe the structure of antheridiophore and archegoniophore in Marchantia. (06)

Q-4 What is stele? Describe various types of steles found in pteridophytes with the help of diagrams. (06)

OR

Q-4 Draw a labeled diagram of t.s. of Pinus needle. (06)

Q-5 Write a note on: Xerocere. (06)

OR

Q-5 Write the anatomical adaptation in hydrophytes and xerophytes. (06)