

V.P.& R.P.T.P.Science College

Bsc. 4th SEMESTER Examination, 2019

Higher cryptogams, Pharmacognosy and Environmental Biology

Subject code -US04CBOT01 BOTANY

Date : 08/03/2019 Day: Friday Time: 3:00p.m to 5.00pm. Total Marks: 50

Note : * All questions are to be attempted.

*Figures to the right indicate marks.

Q: 1 Choose the correct answer from the given options.

1) Nostoc colony is found in the thallus of _____.

a) Notothylus b) Marchantia c) Pogonatum d) Pellia

2) Basal elaterophore is present in -----

a) Psilotum b) Selaginella c) Pellia d) Pogonatum

3) Gnetum, when not in flowering , can be easily mistaken for a.....

a) Dicot plant b) Monocot plant c) Thalloid plant d) Tree fern

4) Leaves of which plant have a ligule?

a) Pogonatum b) Notothylus c) Selaginella d) Marsilea

5) Gum and mucilage are the example of.

a) Underground drug b) Organised drug c) Simple drug d) None of the above.

6) Bark used as a crude drug in.....

a) Coffee b) Cenchona c) Vinca d) Saffron.

7) Sunken stomata are found in the leave of.

a) Nerium b) Maize c) Neem d) None of these.

8) Pioneer community of hydrosere is.

a) Reed swamp stage b) Phytoplankton stage c) Forest stage d) Wood land stage.

Q: 2 Answer the following question (Any Five).

1. Sketch and label female gametophyte with sporophyte of Pogonatum.

2. Write two methods of vegetative reproduction in bryophytes.

3. What is stele.

4. Classify Marsilea.

5. Write medicinal uses of Isopgul.

6. Name of common fumigants used for storage of crude drug.

7. Define: Ecosystem.

8. Write about Aggregation.



08

10



Q: 3 Describe the sporophyte of Marchantia. 08

OR

Q: 3 Describe in detail sporophyte of Notothylus. 08

Q: 4 Write note on:

a) Explain L.S. of Selaginella strobilus with diagram. 04

b) Draw the internal structure of pinus needle 04

OR

Q: 4 Write note on:

a) The structure of sporocarp of Marselia. . 04

b) Types and evolution of stele. . 04

Q: 5 Give a Botanical name, family, chemical constituents and uses of Neem & vasaka.08

OR

Q: 5 Write note on:

a) Morphological and chemical classification of crude drugs. . 04

b) Cultivation and collection of herbal drugs. . 04

Q: 6 Explain:

a) The energy flow of ecosystem. . 04

b) Causes of forest degradation. . 04

OR

Q: 6 Explain the anatomical adaptations in xerophytes and hydrophytes. 08