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SARDAR PATEL UNIVERSITY
B.Sc IV SEMESTER EXAMINATION
SATURDAY, 16th APRIL, 2016
10.30 am – 1.30 pm
US04CBOT01 BOTANY
(HIGHER CRYPTOGAMES, PHARMACOGNOSY AND ENVIRONMENTAL
BIOLOGY)

Total marks -70
(10)

Q.-1 Multiple choice questions

1. The special branches bearing male sex organs in Marchantia is called:
(a) Archigoniophore (b) Antheridiophore
(c) Male cone (d) None of the above
2. In which of the following protonema is found:
(a) Marchantia (b) Pellia (c) Riccia (d) Pogonatum
3. Stele in Selaginella stem is:
(a) Solenostele (b) Dictyostele (c) Protostele (d) Siphonostele
4. Which plant is called Spike Moss?
(a) Selaginella (b) Marsilea (c) Psilotum (d) None of these
5. Spore producing organs in Psilotum is:
(a) Sorus (b) Synangium (c) Strobilus (d) None of these
6. Gum and Mucilage are the examples of:
(a) Simple Drug (b) Unorganised Drug (c) Organised Drug (d) None of these
7. Leaves used as crude drug in:
(a) Opium (b) Castor (c) Vasaka (d) Clove
8. Pioneer community of Hydrosere is:
(a) Phytoplankton Stage (b) Woodland Stage
(c) Forest Stage (d) Red Swamp Stage
9. Hydrilla and Vallisnaria are the examples of:
(a) Amphibious Plants (b) Submerged Aquatic Plants
(c) Floating Aquatic Plants (d) None of these
10. Succulents Xerophytes are found in:
(a) Tundra (b) Tropical Rain Forest (c) Deciduous Plants (d) Deserts

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(P.T.O.)

Q.-2 Answer the following (Any Ten):

(20)

1. Give the classification of Pellia.
2. Sketch and label female Gemetophyte with Sporophyte of Pogonatum.
3. Write a note on Gemma Cup of Marchantia.
4. Write a systematic position of Pinus.
5. Define Stele.
6. Write about male flower of Gnetum.
7. Give the Taxonomical classification of crude drug.
8. Give Botanical name and family of Vasaka.
9. Define Unorganised Drug.
10. Define Ecological Pyramids.
11. What is Ecesis?
12. What is Nudation?

- Q.-3. (a) Explain the internal structure of Marchantia thallus. (06)
(b) Describe the structure of sex organs of notothylyus (04)

OR

- Q.-3 (a) Describe the structure of Sporophyte of Pellia (06)
(b) Sketch and label capsule of Pogonatum (04)

- Q.-4 (a) Describe internal structure of Rhizome of Marsilea (06)
(b) Write a note on male Flower of Gnetum (04)

OR

- Q.-4 (a) Describe internal structure of Pinus needle (06)
(b) Explain the types of Protostele (04)

- Q.-5 (a) Give the Botanical Name, family, Chemical constituents and Uses of plantago and Withania. (07)
(b) Give Morphological classification of crude drug. (03)

OR

- Q.-5 (a) Explain the cultivation of medicinal plants (07)
(b) Write a note on drying method of crude drug. (03)

- Q.-6 Explain the conservation of forest. (10)

OR

- Q.-6 Describe Xerosere on Rock. (10)

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(2)