



27224(New)

B.Sc. II Semester Degree Examination, April/May - 2019

BOTANY

Bryophytes, Pteridophytes, Paleobotany and Gymnosperms

Paper - II

(New)

Time : 3 Hours

Maximum Marks : 60

Instructions to Candidates:

- 1) Part-A is compulsory
- 2) Answer any **Five** Questions in Part-B
- 3) Diagrams will enhance the value of answer

PART-A

I Answer the following questions

(10×1=10)

1. Define Siphonostele
2. What is transfusion tissue? Give example
3. What is Spur?
4. Define ligule
5. What is columella? Write function
6. What are vallecular canals? Give example
7. Why bryophytes are called amphibians of plant kingdom?
8. Who is the father of paleobotany?
9. What is the dominant phase in the life cycle of Bryophytes
10. What are lianas ?

[P.T.O.]

**PART-B**

II. Answer any Five of the following :

1. a) Explain V.S of Sporocarp of Marsilea with a labelled diagram (6)
b) Write general characters of bryophytes (4)
 2. a) Describe archegonial head of Funaria (6)
b) What are Coralloid roots? Draw a neat labelled diagram (4)
 3. a) What are fossils? Explain petrification (5)
b) Explain gemma cup with a diagram (5)
 4. a) Explain T.S.F needle of pinus with a labelled diagram (5)
b) Describe with a labelled diagram T.S.F rhizophore of Selaginella (5)
 5. a) Explain male cone of Gnetum with a diagram (5)
b) What is microsporophyll? Explain the structure of Cycas microsporophyll with suitable diagram. (5)
 6. a) Give an account of economic importance of Gymnosperms (5)
b) Explain T.S.F thallus of Anthoceros with a neat labelled diagram (5)
 7. Describe sporophytic evolution in bryophytes (10)
 8. Explain Stelar evolution in pteridophytes (10)
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