

UG/2nd Sem/H/20 (CBCS)

2020

## BOTANY (Honours)

Paper : BOTH - DC-3

[CBCS]

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.*

1. Answer any *five* questions of the following : 1×5=5
  - (i) Mention the water absorbing cells in the plant body of *Sphagnum*.
  - (ii) What is pseudoelater?
  - (iii) What type of fossils are known as indicator fossils ?
  - (iv) Which era is known as 'Age of Conifers'?
  - (v) Mention the geological age of *Rhynia*.
  - (vi) What is apospory?
  - (vii) Which plant known as 'sago palm'?
  - (viii) State one angiospermic character of the ovule of *Gnetum*.
  
2. Answer any *four* questions of the following : 3×4=12
  - (i) Discuss the role of bryophytes in plant succession and pollution monitoring. 1½+1½=3
  - (ii) What is synangium? Comment on gametophyte of *Psilotum*. 1+2=3
  - (iii) Compare the leaf anatomy of *Cycas* and *Pinus*. 3
  - (iv) Describe the female gametophyte of *Gnetum*. 3

- (v) Mention the different eras, periods and epochs in the standard geological time scale. 3
- (vi) Why 'Gondwanaland' is so-named? How was it formed? 1+2=3
3. Answer any *one* question of the following : 8×1=8
- (i) Classify Bryophyta following Proskaur's (1957) scheme upto class and mention the diagnostic properties of each class. 8
- (ii) What is heterospory? Explain fossil and developmental evidences of heterospory. How much *Selaginella* show seed habit. 1+3+4=8
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