

**2021**  
**M.Sc**  
**First Semester**  
**CORE – 03**  
**BOTANY**  
*Course Code: MBOC 1.31*  
(Gymnosperms & Paleobotany)

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Write the affinities of gymnosperms with pteridophytes and angiosperms. 14
2. Discuss the distribution of gymnosperms in India. 14

**UNIT-II**

3. Write notes on: 7×2= 14
  - (i) Coralloid root of *Cycas*
  - (ii) T.S. of *Pinus* needle
4. Describe the strobili of *Gnetum* with the help of diagrams. 14

**UNIT-III**

5. Define continental drift. Discuss on the evidences of continental drift theory given by Alfred Wegener. 2+12=14
6. Write notes on: 7+7=14
  - (i) Compression
  - (ii) Amber

**UNIT-IV**

7. Give the salient features and affinities of Bennettitales with Cycads and Pteridospermales. 5+5+4=14

8. Write notes on:

7×2=14

- (i) Affinities of Pentoxylales with Bennettiales
- (ii) Affinities of Cordaitales with Conferales

### UNIT-V

9. Explain the applications of paleobotany in exploration of fossil fuels. 14

10. Write notes on:

7×2=14

- (i) Horneophyton
  - (ii) Zosterophyllum
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