

NEP-03 / 01MSCB3 - Major (DSC) Paper-III : Gymnosperms & Paleobotany

P. Pages : 1

Time : Three Hours



GUG/W/23/15063

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw diagrams wherever necessary.

1. What are progymnosperms. Describe in detail the *Aneurophyton* and *Archaeopteris* progymnosperms. **16**

OR

Write notes on:

- a) *Lyginopteris* **8**
b) *Medullosa*. **8**

2. Describe in detail the morphology, anatomy and reproductive structure with diagrams of *Cycas*. **16**

OR

Write notes on:

- a) *Williamsonia* **8**
b) *Pentoxylon* **8**

3. Describe the reproduction and reproductive structure of *Gnetum* with the help of male and female cone. **16**

OR

Write notes on:

- a) T.S. Stem and Needle of *Pinus*. **8**
b) T.S. Steam and Leaf of *Taxus*. **8**

4. Describe the Nomenclature, Age determination and Geological time scale of fossil. **16**

OR

Write notes on:

- a) Fossil parks and Museum of India. **8**
b) BSIP, Lucknow. **8**

5. Write short notes on:
a) Economic importance of Gymnosperms. **4**
b) *Caytonia*. **4**
c) *Cordiates*. **4**
d) Objective of Paleobotany. **4**
