

M.Sc. (Botany) (NEP Pattern) Semester-IV  
**04MSCBOT05.3 - Elective DSE Paper-III : Paleobotany-IV**

P. Pages : 1

Time : Three Hours



**GUG/S/25/16323**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw a well labeled diagram wherever necessary.

1. Explain in detail principles of uniformitarianism and superposition of stratigraphy. Add note on code of stratigraphic nomenclature. **16**
- OR**
- Write note on.
- a) Evidences for evolution of land plants. **8**
- b) Chronostratigraphy. **8**
2. Give detail account on Pre-cretaceous angiosperms. Add note on early angiosperms and their possible habit. **16**
- OR**
- Write note on.
- a) Evidence in the geological record for mass extinction. **8**
- b) Floral changes across the Cretaceous-Paleocene boundary. **8**
3. Give account of an ancient DNA, other fossil biomolecules and their potential in evolutionary research. **16**
- OR**
- Write note on.
- a) Darwinism **8**
- b) Evolutionary and environmental changes. **8**
4. Explain in detail origin, evolution, diversification and extinction of species. **16**
- OR**
- Write note on.
- a) Geological age and correlation of strata. **8**
- b) Quaternary palynology in understanding global warming. **8**
5. Write short notes on:
- a) Lithostratigraphy. **4**
- b) CAM Plants. **4**
- c) Phyletic gradualism. **4**
- d) Bengal basin. **4**

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