

M. Sc. GEOLOGY FIRST SEMESTER

Paper III
103

Paleontology - I

Code: Geol

Unit I

Origin of life, origin of metazoan, nomenclature, and Classification, species concept, Migration dispersion and extinction of animals and plants.

Unit II

Mechanism and evidence of evolution. Evidences of life during Precambrian, major events in the history of Paleozoic life. Elements of Palaeoecology and limiting environmental factors.

Unit III

Paleobiogeographic provinces. Collection, preparation and preservation of fossils, Outline of classification of invertebrates. Classification and significance of micropaleontology.

Unit IV

Foraminifers: Morphology, Classification, evolution, geological history, and palaeoecology. Graptolites : morphology, systematic position, evolution, palaeoecology and geological history

Unit V

Trilobite: Morphology, Growth stages, evolutionary trends, geological history and palaeoecology. Echinoid Morphology, Change in symmetry, variation in oculogenital system, ambulacral areas and compound plates, classification, evolution and geological history.