

SEMESTER - I

PAPER- II (Code: Geol 02): MICROPALAEONTOLOGY

Time: 3 hrs

MM 100

UNIT-I

Introduction and Historical account of development of subject. Classification of microfossils. Techniques of collection and preparation of microfossils. Application of Micropalaeontology in petroleum, Exploration in determination of age of the stratum, local and regional correlation of subsurface succession of Oil Wells, palaeofacies and Tectonic history of the basin, Procedure in classification.

UNIT-II

Foraminifera : The living animal, Alternation of generations, Morphology of the test, Classification and Systematic of Super-families, Families and more important Genera (with particular phylogenetic relationship), Ecology & Palaeoecology, and Geological History.

UNIT-III

Ostracode: Morphology; Classification, Systematic of important genera, Ecology and Palaeoecology and geological history.

Condonts: Morphology; Classification, Zoological affinity and geological history.

UNIT-IV

Pollen, Spore and Seeds: Morphology; Classification, and geological history. Application of Palynology with reference to Petroleum and Coal exploration.

UNIT-V

Introduction to Morphology, Classification and geological History of the microfossils viz. Acritarchs, Calcareous algae, Calpionellids, Chitinozoans, Coccoliths, Diatoms, Dinoflagellates, and Radiolarians.

