

M. Sc. GEOLOGY SECOND SEMESTER

**Paper - III
203**

Paleontology –II

Code: Geol

Unit I

Antozoan: Morphology, evolution, Palaeoecology and geological history of Tetracoralla, hexacoralla and tabulata.

Unit II

Bivalve: Evolution of hinge and dentition, adaptive modification of foot, mantle and pallial sinus, Classification, palaeoecology and geological history.

Gastropoda: Morphology, forms, twisting of nervous system, various apertures, evolutionary trends, classification, palaeoecology and geological history.

Unit III

Cephalopoda: Classification and siphuncle of cephalopods. Ammonite: Morphology, ornamentation and type of sutures, evolutionary theories about ammonite and geological history of Ammonite. Nautiloidea: Morphology, variation of conchs of nautiloidea, Morphology of Coleidea.

Unit IV

Brachiopoda: Morphology variation in brachial skeleton, pedical opening and commissure, Study of important Indian Gondwana plant fossils.

Unit V

Outline of classification of vertebrates, Significance of vertebrate paleontology, Sequence of vertebrates through geological ages. Evolutionary history of man, elephant and horse.