(M.A PREVIOUS SYLLBUS) GEOMORPHOLOGY

Paper-II

- Unit 1 Nature and scope of Geomorphology. Fundamental concepts-Geological. structures and landforms. Uniformitarianism Multi Cyclic and polygenetic evolution of landscapes concepts of threshold. Environmental change-climatic change and geochronological methods- Documentary evidence, Artifacts, Major horizons, Dendrochronology, Pollen-thermo luminescence.
- Unit 2 Earth movements-epeirogentic, organic and cymatogenic earth movements. Forces of crustal instability, Isotacy, Plate tectonics, Seismicity, Vulcan city. Orogenic structures with reference to the evolution of the Himalayas.
- Unit 3 Exogenic processes: Concept of gradation, agents, and processes of gradation c Causes, Types and classification of weathering, Mass movement erosional and Depositional processes and result and landforms and soil formation, Slope Evolution, down wearing, parallel retreat and slope replacement models.
- Unit 4 Geomorphic processes dynamics of fluvial, glacial, Aeolian, marine and Karst Processes and resulting landforms complexities in geomorphologic Processes
- Unit 5 Applied geomorpholy; Application of geomorphic mapping than Evolution, Digital elevation model (OEM) and triangulated aregular network (TIN) unit, land capability and land suitability classification, hydrogeomorphology, urban-geomorphology, Environmental geomorphology, Geomorphic hazards.

Books Recommended

Cooke, R.U. and Doornkamp, J. C.1974. Geomorphology in Environmental management-An indroduction. Clarendon Press, Oxford.

Dury, G.H. 1959. The face of the earth, Penguin Harmondsworth.

Goudie, A 1968 The nature of the Enviornment. Oxford and Blackwell, London.

Gamer, H.F. 1974 The orgin of landscape-A synthesis of Geomorphology, Oxford University Press, London.

Pitty, A.F. 1971 Introduction to Geomorphology, Methuen, London.

Sharma, H.S. (ed) 1980 Perspectives in Geomorphology, Concept, N-Delhi.

Singh, S 1998 Geomorphology, Prayag Publication, Allahbad.