

(10)

- 2.2 : Geomorphic—coastal erosion and river bank erosion.
- 2.3 : Meteorological—Drought, flood, cyclone.
- 2.4 : Biotic-Degradation of forest and Man and Animal conflict.

UNIT - III : Socio-Economic Hazard

- 3.1 : Poverty line, Poverty cycle, Hunger, Nutrition and Famine.
- 3.2 : Crime : Concept of social pathology, socio-economic factors responsible for adult crime and juvenile delinquency.
- 3.3 : Disease—Endemic, Epidemic and Pandemic.
- 3.4 : War, Terrorism and Crime against woman.

UNIT - IV : Disaster Management

- 4.1 : Education for Disaster risk reduction.
- 4.2 : Essentials of pre, during and post recovery Planning.
- 4.3 : Implementation Technology for Disaster Reduction.
- 4.4 : Modeling for Disaster Reduction.

(11)

Paper - VIII

Special Paper (Theoretical)

Module - 16 : Fluvial Geomorphology

(Marks : 50)

UNIT - I : Fundamental of River Hydraulics

- 1.1 : Forces acting in a Channel.
- 1.2 : Factors controlling Flow Velocity.
- 1.3 : Velocity and Distribution.
- 1.4 : Types of Stream Flow and their characteristics.

UNIT - II : Transportation of Sediment Load

- 2.1 : Competency and Capacity of a Stream.
- 2.2 : The Debris Load of River.
- 2.3 : The nature of Fluid force and its relation to Debris movement.
- 2.4 : The Mathematical Curve and Longitude.

UNIT - III : Channel Behaviour

- 3.1 : Behaviour of Tidal Channels.
- 3.2 : Channel Forms and Processes in Indian Rivers.
- 3.3 : Flood Problems.
- 3.4 : Channel Behaviour and Human Influences.