



Engineering Geology (1110)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** questions from each unit.
5. Assume suitable data if necessary.

UNIT - I

1. a) What is Igneous rock ? How they form ? Explain classification of Igneous rocks. **10**
b) What is Metamorphism ? What are the agents & types of metamorphism ? Explain in detail. **10**
c) How secondary rocks form. Explain in detail classification of secondary rocks. Explain clastic Texture. **10**

UNIT - II

2. p) Define fold ? How they creates. Describe different parts of fold and types of fold with neat sketches. **10**
q) What is Rejuvenation of river ? Describe in detail characteristics of rejuvenation with neat sketches. **10**
r) What is outcrop ? Describe in detail strike, dip, thickness, confirmable and uncomfortable beds, and outlier, inliers. **10**

UNIT - III

3. m) What is ground water ? What are the sources of it ? Explain in detail perched water tables & artesian wells. **10**
n) Describe stratigraphic formation Deccan Trap basalt with field characters of lava flows. **10**
o) Describe in detail stratigraphic formation of Vindhyan formation, importance of Red sand stone. **10**

UNIT - IV

4. j) Describe in detail core logging, core recovery, Angle holes. **10**
- k) Describe in detail importance of surface and subsurface investigations for civil Engineering projects. **10**
- l) What is landslides ? What are the causes and preventive measures against landslides ? **10**

UNIT - V

5. x) What are the geological problems which creates during Dam foundation if site is having Lime stone and fault. **10**
- y) What are the geological problems which creates during Dam foundation if site is having Deccan Trap Basalt and fold. **10**
- z) How to decide suitability of Tunnel if fault, fold fractures occurs during tunneling. **10**
