

Seat
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BAI1310

Engineering Geology (New) (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. Answersheet 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) How Igneous rocks occurs ? Explain in detail Textures of Igneous rocks with neat sketches. 10
b) What is metamorphic process ? Describe in detail structures of metamorphic rocks with neat sketches. 10
c) Describe in detail Texture and structures of secondary rocks with neat sketches. 10

UNIT - II

2. p) Describe in detail characteristics of youthful & maturity stages of river cycle with sketches. 10
q) Why faults creates in rock formation, differentiate it from fractures. Explain in detail with neat sketches, parts and types of fault. 10
r) What is Rejuvenation ? Explain in detail river terraces and entrenched meanders. 10

UNIT - III

3. m) Why Nation is facing problem of ground water ? Explain in detail springs, depth zones of ground water. 10

- n) Describe stratigraphic formation of Gondwana with coal deposit. 10
- o) What are the physiographic divisions of India ? Explain in detail Diamondiferous zones of Vindhyan formation. 10

UNIT - IV

4. j) What is subsurface exploration ? Describe in detail observations and limitations during drilling. 10
- k) Why Angle holes are required in Civil Engineering project. Explain in detail fracture surface of drill cores & core recovery. 10
- l) What is land slides ? What are the causes and preventive measures against landslides. 10

UNIT - V

5. x) During Dam foundation what are geological problems to be face if site is having No. of dykes, fractures, and RTB. 10
- y) What are the geological requirement for excavation of tunnel ? How decide suitability if fault, fold fractures occurs during tunnelling. 10
- z) What are the relation between type of dam and Geology. Describe in detail suitability of Deccan Trap basalt for dam foundation. 10
