

Seat  
No.

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मजल - 011

## 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. 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. Figures to the right indicates full marks.
6. Neat diagrams must be drawn wherever necessary.

### UNIT - I

1. Define Magma, how magma creates ? What is Igneous rocks, explain in detail various types of textures of Igneous rocks. 10
2. What is metamorphism ? Distinguish between directed pressure and uniform pressure, what are the stress and antistress minerals ? Describe in detail the kinds of metamorphism. 10
3. Define secondary rocks, how they occur ? Explain in detail textures shown by sedimentary rocks with neat sketches. 10

### UNIT - II

4. Define fault, how it occurs ? What are different parts of fault, describe in detail types of fault with neat sketches. 10
5. Describe in detail "mode of occurrence of igneous rocks from which different structures are form. 10
6. What is Rejuvenation ? Describe resulting features of river rejuvenation. 10

### UNIT - III

7. Describe in detail "Vertical distribution of Ground water. 10

8. Describe in detail Vindhyan Sand Stones, Diamondiferous conglomerate, mineral wealth of Dhalwar. 10
9. Describe in detail perched waterfall, Artesian well, conservation of ground water. 10

**UNIT - IV**

10. How landslides occurs ? What are the causes of landslides and preventive measures of landslides. 10
11. Write in detail observations and precautions during drilling. 10
12. Describe following - core recovery, Fracture surface of drill cores, Angle hole. 10

**UNIT - V**

13. Describe in detail dams on folded structures. 10
14. Describe in detail Tunnel through compact and amygdaloidal basalt. 10
15. Write in detail dams on Lime Stone and preventive measures. 10

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