

Model Question Paper SET2
Paper : MJ8 (ENGINEERING GEOLOGY)
Subject : Geology

Full Marks: 75

Time: 3 hours

Group A

(Short answer-type compulsory questions)

Q1. Fill in the blanks: [5x1=5]

- a) RQD stands for _____.
- b) RMR stands for _____.
- c) Rock bolting is a _____ support system
- d) which dam depends on its own weight.
- e) Grouting primarily reduces

Q2. Write a note on landslide and its causes. [5]

Q3. Describe Rock Quality Designation (RQD) . [5]

Group B [4 X 15]

Answer any four

(Subjective/ Descriptive questions)

Q4. Discuss the engineering properties of rocks. Differentiate between intact rock properties and rock mass properties

Q5. Explain earthquakes, their causes, types, effects, and preventive measures.

Q6. Describe the Tunneling Quality Index (Q-system). Explain its significance in tunnel design

Q7. Discuss the geological investigations required before selecting a tunnel site.

Q8. Explain the Geological Strength Index (GSI). Discuss its importance in rock engineering

Q9. Describe the geological considerations for road construction in different regions.

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