

Model Question Paper SET1
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) A landslide is the movement of _____ down a slope.
- b) Earthquakes occur due to sudden release of _____.
- c) TBM stands for _____.
- d) Q-system is mainly used for _____.
- e) Rock bolting is a _____ support system

Q2. Write a note on Landslide causes and mitigation. . [5]

Q3. what is earthquake ? What are the causes of earthquakes. . [5]

Group B [4 X 15]

Answer any four

(Subjective/ Descriptive questions)

Q4. Explain the role of an engineering geologist in the planning, design, and construction of major civil engineering projects.

Q5. Discuss the causes, types, triggering factors, and mitigation measures of landslides.

Q6. Explain the Rock Mass Rating (RMR) system and its applications in engineering projects.

Q7. Explain the tunneling methods: Fore Poling, Heading and Bench and NATM.

Q8. Explain the geological considerations in the selection of dam and reservoir sites.

Q9. Write the petrographic characteristic of any 3 of the following rocks:

- i. Grouting.
- ii. Rock bolting
- iii. Engineering properties of soil
- iv. Rock Quality Designation (RQD)
- v. Types of dams.

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