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- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and Chemical equation should be given wherever necessary.
 5. Illustrate your answers wherever necessary with the help of neat sketches.

1. What is an earthquake? Discuss the cause of earthquake. Add a note on characteristics of the Seismic Waves. **16**

OR

2. Give an account of the geological work of River. Describe various geomorphic features created by the river. **16**

3. What are faults? Describe the different types of faults with suitable sketches. Add a note on importance of fault structures in mining engineering works. **16**

OR

4. a) A Sandstone bed in a mine is dipping at 1 in 5 along N45° W. Find the directions in which its apparent. Dip is 1 in 8. Give procedure scale 1 unit = 1 cm. **8**

b) A lime stone bed is dipping at 25° east into a hill slope 20° west. Its outcrop is 300 m wide. Determine the true and vertical thickness of limestone. Write procedure. Scale 1cm = 40m. **8**

5. What is mineral? Describe in detail the physical properties of minerals with typical examples. **16**

OR

6. Give an account of the physical properties, chemical composition mode of occurrence and uses of pyroxene group of mineral. **16**

7. What is Rock cycle? Describe the formation of igneous rocks. Add a note on tabular classification of igneous rocks. **16**

OR

8. Define term texture and structure of igneous rocks. Explain various structures of igneous rocks with neat diagrams. **16**

9. What are sedimentary rocks? How are they formed? Describe in detail the classification of sedimentary rocks with examples. **16**

OR

10. What is metamorphism? Describe the various types of metamorphism with examples. **16**
