



- 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 help of neat sketches.

1. What is an earthquake? Describe earth quake waves and their Characteristics Add. a note on the tectonic origin of the earthquake. **16**

OR

2. Discuss the Geological work done by a river. Explain erosional and depositional landforms developed by river action. **16**

3. What is fault? Describe the different types of faults. What are effects of faulting on outcrops of strata **16**

OR

4. a) Define **8**
i) Apparent dip and true dip. ii) Isoclinal fold
iii) Plunging fold iv) Anticline and syncline

- b) A shale bed is exposed in a slope 20° west and dipping at 20° east. The width of its out crop is 200 m find true and vertical thickness of shale bed write procedure. **8**
Scale 1cm = 40m

5. What is mineral? describe various physical properties of minerals. Describe the physical properties of quartz and calcite minerals **16**

OR

6. Enlist the important-minerals of the feldspar family and briefly describe their chemical composition and physical characteristics. **16**

7. a) What are igneous rocks? Discuss the formation of igneous rock in nature. **8**
b) Give the tabular classification igneous rocks. **8**

OR

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

9. What is sedimentary rock? Discuss the classification of sedimentary rocks with suitable Examples. **16**

OR

10. Define metamorphism. Briefly describe various kinds of metamorphism and their products. **16**
