

(Civil Engineering)

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

(22 Marks)

1.
 - a) What is meant by weathering? [3M]
 - b) What are the types of Minerals? [4M]
 - c) Draw the parts of “FAULT”. [4M]
 - d) Define the terms Porosity and Permeability. [4M]
 - e) Write short note on the importance of Geophysics. [4M]
 - f) What is the purpose of DAMS? [3M]

(48 Marks)

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| 2. | a) | What are the Branches of Geology? Explain. | [8M] |
| | b) | What are the types of Rivers? Explain the geological work of RIVERS. | [8M] |
| 3. | a) | Write the physical properties of QUARTZ group of minerals. | [8M] |
| | b) | Define the terms of LUSTRE, HARDNESS and Give their types. | [8M] |
| 4. | a) | What are the parts of Folds? Give their types with sketches. | [8M] |
| | b) | What are the types of Joints? And their types in Igneous rocks. | [8M] |
| 5. | a) | Explain the different preventive measures to be taken for construction of buildings in earthquake prone areas. | [8M] |
| | b) | Explain the classification of Landslides. | [8M] |
| 6. | a) | What are classifications of geophysical methods? | [8M] |
| | b) | Explain the parameters and methods of Gravity method. | [8M] |
| 7. | a) | Explain the influence of geological structures for Tunneling. | [8M] |
| | b) | Explain the effects and Over break of Tunnels. | [8M] |
