

Code No: 156DU**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, February/March - 2022****GENERAL GEOLOGY****(Common to CE, MIE)****Time: 3 hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

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1. Discuss the classification and global distribution of volcanoes and describe various volcanic products. [15]
- 2.a) Explain the major discontinuities within the Earth's interior.
b) Give a brief account on soil erosion and conservation. [7+8]
- 3.a) Explain briefly about 'Land forms? Why it is necessary in Geological consideration?
b) What do you understand by paleochannels? Discuss briefly. [8+7]
- 4.a) Describe in brief about the types of landforms produced by Rivers.
b) What is a volcano? Briefly describe elevated and depressed volcanic landforms. [7+8]
- 5.a) Briefly explain the secondary structures of sedimentary rocks with suitable diagram.
b) Write the mineral composition, texture and petrological characteristics of conglomerate and shale. [7+8]
6. Describe with suitable sketches four different types of structures/textures found in metamorphic rocks and brief notes on their origin. [15]
- 7.a) What is paleontology and give their role in petroleum exploration?
b) What is the importance of fossils in oil exploration? [8+7]
- 8.a) Explain briefly methods of preparation of organic walled microfossils.
b) Describe in detail the significance of trace fossils. [8+7]

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