

45043

M.Sc. DEGREE EXAMINATION, APRIL 2018.

Geology

FOURTH SEMESTER

Paper III — ENGINEERING GEOLOGY AND NATURAL HAZARDS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

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Each answer carries 3 marks.

Each question should not exceed 1 page.

1. Tensile strength
2. Devals machine
3. Desiltation in reservoirs
4. Gravity dam
5. Coastal erosion
6. Land subsidence
7. Pipeline Alignment
8. Geomorphological considerations for dams.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each answer carries 15 marks.

Each question should not exceed 6 pages.

9. Write an essay on modules of elasticity and add a note on its importance in engineering geology.

Or

10. Discuss field tests to be conducted at dam sites.

11. Write an essay on geological investigations to be carried out for tunnel construction.

Or

12. Discuss the Nagarjuna Sagar dam in terms of engineering Geology.

13. Write an essay on Disaster management policy.

Or

14. Discuss the disaster of volcanic activity and prediction.

15. Write an essay on GIS application in river valley projects.

Or

16. How to prepare seismic zonation maps?

