

M.Sc. DEGREE EXAMINATION, MARCH 2016

GEOLOGY

FOURTH SEMESTER

Paper III – ENGINEERING GEOLOGY AND NATURAL HAZARDS

45043

Time: Three Hours

Maximum: 75 marks

(No additional sheet will be supplied)

**Part – A (5x3=15 marks)**

Answer any FIVE questions

Each question carries 3 marks

Each answer should be not exceed one page

1. Toughness test
2. Quarrying
3. Coastal erosion
4. Case study of Nagarajuna Sagar Dam
5. Pipe line alignment
6. Disaster management policy
7. Mitigation of floods
8. Slope analysis

**Part –B (4x15=60 marks)**

Answer ALL questions

Each question carries 15 marks

Each answer should be not exceed 6 pages

9. Write an essay on modulus of elasticity and its applications in engineering geology  
(Or)
10. Describe the importance of compression and tensional stresses in civil engineering projects.
11. What are the geological consideration for the selection of reservoir site  
(Or)
12. Write an essay on problems encountered during tunneling
13. Give a detailed account on causes and effects of volcanic activity  
(Or)
14. Write an essay on soil conservation methods
15. Write an essay on applications of remote sensing in river valley projects  
(Or)
16. Explain the role of GIS in seismic hazards mitigation

