

Code No: 07A50105

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year I Semester Examinations, June/July – 2014

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 80

Answer any five questions
All questions carry equal marks

- 1.a) Why rocks undergo weathering?
b) Why it is unwanted from civil engineering point of view?
c) Explain how Granite undergoes weathering.
- 2.a) Define a mineral.
b) What are the advantages of study of minerals by physical properties?
c) Explain hardness and cleavage in minerals.
3. Explain the classification sedimentary rocks into residual, mechanically formed, chemically formed and organically formed, types along with examples
4. Write short notes on the following:
a) Strike and dip
b) Mural joints
c) Slicker sides
d) Angular unconformity.
- 5.a) Explain briefly about exploration of groundwater.
b) Define landslides, their causes and effects.
- 6.a) With a suitable sketch explain the principle of study by seismic methods.
b) What is its importance from civil engineering point of view?
- 7.a) What are the different types of dams and how are they selected based on geology of site?
b) What is bed rock profile and what is its importance?
8. What is the role of lithology and geological structures in successful tunneling?
