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Code No. : 13106 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (Civil Engg.: CBCS) III-Semester Supplementary Examinations, May/June-2018

Geology

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. Define the hardness and cleavage of a mineral.
2. Write about the cross bedding and graded bedding in sedimentary rocks.
3. Differentiate the angular unconformity and disconformity.
4. What is spheroidal weathering in basalt.
5. What is a spring.
6. Draw a neat sketch of hydrological cycle and label the various components.
7. Analyse a dam failure that you know.
8. Write about the reservoir induced seismicity.
9. What is a standup time.
10. What are seismic waves.

Part-B (5 × 10 = 50 Marks)

11. Give geological description and engineering properties of the following rocks: [10]
a) Granite b) Basalt c) Laterite d) Slate
12. a) Explain the various classifications of faults. [6]
b) Describe the main processes of chemical weathering. [4]
13. a) Explain the suitability of groundwater occurrences in various lithological formations [5]
b) Describe the different types of aquifers. [5]
14. a) Explain the geology of any one major dam site of India. [6]
b) Suggest the solutions for the problems associated with the silting of reservoirs. [4]
15. a) Discuss the role of various geological considerations for selection of tunnels. [7]
b) Describe the intensity of earthquakes. [3]
16. a) Write in detail the various structures exhibited by metamorphic rocks. [4]
b) Explain in brief the classifications of folds. [6]
17. Answer any *two* of the following:
a) Groundwater exploration [5]
b) Describe the various geological considerations for selection of a dam site. [5]
c) What are the causes and remedial measures for prevention of land slides. [5]