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[5668]-110

S.E. (Civil Engg.) (Second Semester) EXAMINATION, 2019

ENGINEERING GEOLOGY

(2015 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Write the answers to any *four* questions in single answer book only.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) Explain grain size classification of sedimentary rocks with examples. [6]

(b) Describe the following physical properties of a mineral : [6]

(i) Hardness

(ii) Form.

Or

2. (a) What is metamorphism ? Describe 'Dynamothermal' and 'Cataclastic' metamorphism with example of each. [6]

(b) Describe various 'concordant' igneous intrusions. [6]

P.T.O.

3. (a) Explain any *two* landforms develop due to marine erosion. [6]

(b) Write a note on 'Achaean and Dharwar'. [6]

Or

4. (a) Write a note on Tectonic mountains. [6]

(b) What is Remote sensing and GIS ? Explain how RS and GIS is useful in the field of Engineering geology. [6]

5. (a) What is 'subduction zone' in plate tectonics ? Draw a neat diagram. [7]

(b) What is the importance of 'Diamond Core Drilling' ? [6]

Or

6. (a) Describe feasibility of a dam proposed on bedded rocks. Draw neat sketches. [7]

(b) What difficulties will have to be faced while tunnel is excavated in Jointed rock ? Illustrate your answer with neat sketches. [6]

7. (a) What is fault ? Give nomenclature of 'fault'. Describe 'Gravity fault' and 'reverse fault'. Draw neat sketches. [7]

(b) What geological exploration is required to be carried out in and around 'reservoir area' of proposed dam ? [6]

Or

8. (a) What are the requirements of good building stones ? [7]
- (b) What is spring ? Explain the Geological conditions favourable for springs with neat diagrams. [6]