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S.E. (Civil) (II Sem.) EXAMINATION, 2016

ENGINEERING GEOLOGY

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) All questions are compulsory.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right side indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) Describe in detail, modified Hatch's scheme of classification of Igneous rocks. [6]

(b) Discuss in short diagenesis process of Sedimentary Rocks. [4]

Or

(a) Describe in detail the classification of Metamorphic rocks. [6]

(b) Describe the Hardness and Cleavage physical property of mineral. [4]

2. (a) Define a fold. Discuss in detail parts of folds. Describe few fold types. [6]

(b) Explain how anticlines are recognized in the field from synclines. [4]

P.T.O.

Or

(a) Explain Gondwana rocks in terms of their distribution, age, climate variation, mineral resources in them. [6]

(b) Describe geometrical classification of joints with suitable sketches. [4]

3. (a) What are preliminary geological explorations at engineering projects ? [4]

(b) Write in brief limitations of drillings. [4]

Or

(a) Describe the importance of structure and textures in the movement and storage of groundwater. [4]

(b) How do earthquake waves affect to engineering projects ? Explain. [4]

4. (a) Discuss the feasibility of tunnel which is passing through : [8]  
(i) Compact Basalt

(ii) Amygdaloidal Basalt.

(b) Discuss in brief relationship between types of dam and its geology. [4]

Or

(a) Discuss feasibility of Dam site on dipping beds. [8]

(b) Application of remote sensing techniques in engineering projects. [4]

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5. (a) What are the landslides ? How to classify the various mass movements ? [6]
- (b) How do weathering and textural variation affect the durability of dimension stones with suitable example ? [4]

*Or*

- (a) Write a note on stability of hill slope. [6]
- (b) Discuss the stages of rivers. [4]