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[5352]-110

S.E. (Civil) (II Sem.) EXAMINATION, 2018

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 indicate full marks.

(iv) Assume suitable data, if necessary.

- Q.1 a) Describe in detail classification of Sedimentary rocks. [06]
b) Discuss in brief the Igneous Rocks Classification by genetics [04]
OR
a) Describe in detail the classification of Metamorphic rocks [06]
b) Describe the structure and streak physical property of mineral with suitable examples. [04]
- Q.2 a) Define a Fault. Discuss in detail parts of fault also discuss different types of fault [06]
b) Explain how folds are converted to faults in detail. [04]
OR
a) Explain in detail the Vindhyan system. [06]
b) Describe in detail the Unconformity with suitable sketches. [04]
- Q.3 a) How geophysical studies support the preliminary geological explorations at engineering projects. [04]
b) Write in brief Preservation of Cores. [04]
OR
a) Describe in detail the groundwater movement. [04]
b) Explain in brief earthquakes. [04]

P.T.O.

- Q.4 a) Discuss the feasibility of tunnel which is passing through [08]
1. Compact Basalt
2. Amygdaloidal Basalt.
- b) Discuss in brief how geology plays a vital role in dam failures. [04]
OR
- a) Discuss feasibility of Dam site on dipping beds [08]
b) Application of remote sensing techniques in engineering projects [04]
- Q.5 a) What are the landslides? How to classify the various mass movements? [06]
b) How weathering and textural variation affect the durability of dimension stones [04]
with suitable example
- OR
- a) Write a note on hill slope stability. [06]
b) Write a note on ex bow. [04]