Total No. of Questions—5]   [Total No. of Printed Pages—3

Seat
No.

[5057]-208

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 digenesis 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]