

(Following Paper ID and Roll No. to be filled in your  
Answer Books)

Paper ID : 100412

Roll No.

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**B.TECH.****Theory Examination (Semester-IV) 2015-16****ENGINEERING GEOLOGY*****Time : 3 Hours******Max. Marks : 100*****Section-A****1. Attempt All Questions.****(2×10 = 20)**

- (a) What do you mean by Joints?
- (b) What do you mean by Subsurface Structures?
- (c) Define Seismic Zones?
- (d) What are Grouting?
- (e) Define Dip?
- (f) What do you know about Faults?
- (g) What do you mean by Folds?

(h) Give the advantages of Artisans Well?

(i) Define Geological Hazards?

(j) Name Different Types of Rocks for minerals?

### Section-B

#### 2. Attempt any Five Questions

[10×5=50]

- (a) Define Stratification? Briefly describe the Lamination Bedding.
- (b) Name the different Seismic zones in which India is divided.
- (c) Explain the Behavior of Rocks Unconformity? Classify them related to Engineering Behavior.
- (d) What do you mean by Aquifers and Aquicludes? Explain their advantages and Disadvantages?
- (e) What is lamination bedding? Explain its effect on topography.
- (f) Define Underground Water? Describe its origin?
- (g) What do you mean by Landslides? Describe their Preventive Measures?
- (h) Write a brief note on Geological Studies in Civil Engineering?

(2)

### Section-C

#### Note : Attempt any Two Questions

(15×2=30)

3. What do you mean By Geo physical Exploration? Briefly describe its principles for Sub surface Structures
4. What do you mean by Minerals? Explain the physical and Detailed Study of all Rock forming Minerals
5. Describe the Geological Investigation for site selection of Dams and Reservoir, tunnels, bridges and Highways?

(3)