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[5152]-110**S.E. (Civil Engineering) (Second Semester)****EXAMINATION, 2017****ENGINEERING GEOLOGY****(2012 PATTERN)****Time : Two Hours****Maximum Marks : 50**

N.B. :- (i) Solve/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) Distinguish between Conglomerate and Breccias. How do they form in nature ? [6]
- (b) What is Unconformity ? Enlist types of Unconformities. Describe any *one* with neat diagram. [6]

Or

2. (a) What is Metamorphism ? Make distinction between two parallel textures represented by metamorphic rocks. [6]
- (b) Differentiate between Fracture and Fault ? Explain Reverse Fault. [6]

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3. (a) Describe depositional work done by River. [6]
(b) Inscribe importance of Core Drilling ? What are the limitations of drilling ? [6]

Or

4. (a) What are principles of stratigraphy ? Explain in detail any *two* principles. [6]
(b) Write a note on importance of observation during drilling process. [6]
5. (a) Describe any Two geological conditions leading to Artesian well ? [7]
(b) Write note on feasibility of Tunnelling through : [6]
(i) Compact Basalt
(ii) Amygdaloidal Basalt

Or

6. (a) Explain with appropriate example about feasibility of dam alignment across a Dyke. [7]
(b) Describe Earthquake Waves and their characteristics with diagrams. [6]
7. (a) What is soil creep ? What is Rock fall ? Explain natural and artificial causes of Landslides. [7]
(b) Describe feasibility of dam in folded areas. Draw neat diagrams. [6]

Or

8. (a) What are Core Recovery and RQD ? On the basis of the following data calculate core recovery and RQD : [7]

Run in meters	Piece no.	Length of each piece in 'cm'	Nature of fracture at lower end	Remark
3 m to 6 m	1	10	M	Basaltic rocks
	2	09	J	
	3	09	M	
	4	30	J	
	5	34	J	
	6	51	J	
	7	55	J	
	8	60	J	
	9	42	J	

- (b) Elaborate Geological studies to be carried in reservoir area of dam. [6]