Total No. of Questions—**8**] [Total No. of Printed Pages—**3**

Seat No.	

[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]

P.T.O.

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]