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

Seat No.	

[5252]-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*) What are Sedimentary Rocks ? Distinguish between White sandstone and Ferrugenous Sandstone. [6]

(*b*) What is overlap ? Describe inlier and outlier with neat sketches. [6]

Or

2. (*a*) What is Metamorphism ? Describe two-parallel textures represented by metamorphic rocks. [6]

(*b*) What is folding ? Give nomenclature of the fold. Describe any *two* types of folds. [6]

P.T.O.

3. (*a*) Describe any *three* features developed by River Erosion. [6]

(*b*) Why observations and precautions are necessary in the core drilling process ? [6]

Or

4. (*a*) Write a note on 'physiographic divisions of India'. [6]

(*b*) How nature of the rocks can be assessed on number of pieces present in one RUN ? [6]

5. (*a*) Describe any *two* geological conditions leading to natural springs. [7]

(*b*) Write notes on feasibility of Tunelling through : [6]

(*i*) Anticline

(*ii*) Syncline.

Or

6. (*a*) Explain with appropriate example feasibility of dam alignment across a fracture. [7]

(*b*) Explain the product of volcanoes. [6]

7. (*a*) What are Natural and Artificial causes of Landslides ? Enlist measures to prevent landslide. [7]

(*b*) What Geological studies are required to be carried out in reservoir area of proposed dam site. [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	Granite
	2	09	J	rocks
	3	09	M	
	4	30	J	
	5	34	J	
	6	51	J	
	7	55	J	
	8	60	J	
	9	42	J	

(*b*) Describe feasibility of dam in folded areas. Draw neat diagrams. [6]