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

Seat No.	

[5152]-510

S.E. (Civil Engineering) (Second Semester)
EXAMINATION, 2017
ENGINEERING GEOLOGY
(2015 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*) How are sedimentary rocks formed ? Explain types of sedimentary deposits with examples. [6]

(*b*) Write note on INTERIOR of THE EARTH. [6]

Or

2. (*a*) What is Metamorphism ? Describe GNEISSOSE and SCHISTOSE texture with neat sketches. [6]

(*b*) What are CLASTIC and NONCLASTIC secondary rocks ? Describe CLASTIC texture with neat diagram. [6]

3. (*a*) Describe any *three* features developed by RIVER deposition. [6]

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

P.T.O.

Or

4. (*a*) Write note on ARCHEANS and DHARWARS. [6]

(*b*) How can nature of the rocks 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 note on feasibility of TUNNELLING through : [6]

(*i*) Anticline

(*ii*) Syncline.

Or

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

(*b*) What is seismology ? Explain various seismic waves. Describe CIRCUMPACIFIC RING OF FIRE. [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 further logging 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
	1	09	M	Basaltic rocks
	2	10	J	
	3	09	M	
	4	40	J	
	5	20	J	
	6	34	J	
	7	55	J	
	8	42	J	
	9	50	J	
	10	31	J	

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