## B.E. (Civil Engineering) Semester Third (C.B.S.) **Engineering Geology**

P. Pages : 2 Time : Three Hours				<b>KNT/KW/16/7210</b> Max. Marks: 80	
	Notes	5: 1. 2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat sketches.		
1.			account of the geological work of wind. Explain in detail important features of the be of wind erosion and deposition.	14	
			OR		
2.	a)	Describe	e the physiographic and tectonic divisions of India.	7	
	b)	What is	stratigraphy? Describe various principles of stratigraphic correlations.	7	
3.		What is them.	a mineral? Describe different physical properties of minerals which help to identify	13	
			OR		
4.			e Igneous Rocks? Discuss the formation of igneous rocks and tabular classification us rocks.	13	
5.			e faults? Discuss different types of faults and their significance in civil engineering etion work.	14	
			OR		
6.	a)		tone bed in a dam site is found to be dipping at 1 in 6 along S 65° W and 1 in 8 along Find the amount and direction of its true dip. scale 1 unit = 1 cm.	7	
	b)		tone bed is exposed on a slope $20^{\circ}$ East. The bed dips at $30^{\circ}$ west and its outcrop is ide. Determine its true and vertical thickness. Scale 1 cm = $40$ m.	7	
7.		What ar India.	e Earthquakes? Describe in brief the origin of an earthquakes and seismic zones of	13	
			OR		
8.		What ar	e landslides? How are they caused? Describe various methods of prevention of es.	13	

9.	a)	What is ground water? Describe the occurrence of ground water below the earth's surface.	
	b)	Discuss that various hydrogeological conditions which are responsible for formation of water table well artesian well and flowing well.	6
		OR	
10.		What is geophysical prospecting? Describe the electrical resistivity method of geophysical prospecting in detail.	13
11. Discuss the geological conditions that influence the sketches.		Discuss the geological conditions that influence the stability of a dam structure, with neat sketches.	13
		OR	
12.		Write short notes on:	13
		a) Building stones.	
		b) Rock Quality Designation. (R.Q.D.)	
		c) Railway ballasts.	
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