13	EOF		CBCS SCHEME	
ASN'S	USN	all's		18CV36
al	n32	13 ¹⁶³	Third Semester B.E. Degree Examination, June/July 2024	
1.00	Par a	5.80	Engineering Geology	
	Tim	ne: 3	3 hrs. Max. Max	rks: 100
tice.		N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	dule.
e biank pages. = 50, will be treated as malpractice			Module-1	
s ma	1	a.	Briefly explain the role of Engineering Geology in Civil Engineering practice.	(08 Marks)
ed a		b.	Explain the internal structure of the Earth, with neat sketches.	(08 Marks)
treat		C.	Write luster, hardness, chemical composition of	(0.4.3)/(1)
l be			i) ROSE QUARTZ and ii) ORTHOCLASE.	(04 Marks)
, wil			OR	
Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$, will be	2	a.	Give a detailed account of physical properties of minerals.	(08 Marks)
42+8		b.	Write the physical properties, chemical composition and uses of following minera	
9.0		0	i) HEMATITE ii) CHALCOPYRITE.	(08 Marks)
ten e		C.	Differentiate between Rock farming minerals and Ore minerals.	(04 Marks)
writ			Module-2	
ions	3	a.	Give a detailed account of classification of Igneous rocks based on their origin w	ith suitable
quati			examples.	(08 Marks)
or ea		b.	Write the physical properties, mode of origin and engineering uses of sand	
evaluator and /or equations written eg,		c.	marble. Differentiate between Gneissose structure and Schistose structure.	(08 Marks) (04 Marks)
ator a		0.	Differentiate between Gheissose structure and Semistose structure.	(04 Marks)
valu			OR	
to	4	a.	Briefly explain the types of Weathering.	(08 Marks)
peal		b.	Give a detailed account of Soil profile, with neat sketch.	(06 Marks)
ı, ap		C.	Write short note on types of drainage patterns.	(06 Marks)
auoi			Module-3	
ITTIC	5	a.	Give a detailed account of geological investigations to be carried out for the constr	ruction of
iden			dams.	(08 Marks)
g of			Explain the types of unconformities, with neat sketch.	(08 Marks)
Any revealing of identification, appeal		С.	Define the Dip and Strike of the rock formation.	(04 Marks)
rev(OR	
Any	6	a.	Give the detailed classification of faults.	(10 Marks)
2.		b.	What are the important geological conditions of site investigation for tunneling wi	
			to their safety and stability?	(10 Marks)
			Module-4	
	7	a.	Define i) Porosity ii) Permeability iii) Specific yield iv) Specific	c retention.
				(08-Marks)
		b.	Explain the types of Aquifers with neat sketch.	(08 Marks)
		C.	Differentiate between Aquitard and Aquiclude.	(04 Marks)
			1 of 2	

Actual I

(06 Marks)

OR

8 a.	. Giv	e a detailed	l account	of Electrical	Resistivity	method for	r ground	water exp	oloration.
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- (08 Marks) Explain the components of Hydrogeological cycle, with neat sketch. b. (06 Marks)
- Write short note on Floods and its control. с.

Module-5

- 9 Give the detailed account of causes and effects of Earthquakes. a. (08 Marks)
 - What are Landslides? Suggest the remedial measures for the landslides. b. (06 Marks) (06 Marks)
 - Give an account of application of Global Positioning system. C.

OR

- Give a detailed account of application of remote sensing in Civil Engineering field.(08 Marks) 10 a. What is Remote sensing? Write the merits and demerits of remote sensing technology. b.
 - (06 Marks) Give a brief account of components and application of Geographical Information system. C. (06 Marks)