Ti	Roll No.  Total No. of Pages:  3E1623  B. Tech. (Sem. III) (Main/Back) Examination, December - 201's  Civil Engg.  3CE3A Engg. Geology  ime: 3 Hours	3
	Maximum Marks Min. Passing Marks  Attempt any five questions, selecting one question from each unit.  All Questions carry equal marks. Schematic diagrams must be stated and stated clearly. Units of quantities used calculated must be stated clearly.	: 80 : 26
Use (Me	e of following supporting material is permitted during examination.	
1	UNIT - I  Distinguish between weathering and Erosion and describe in brief various of weathering.	agents
	OR	16
1 -	Write short notes on any two of the following:  (i) Features formed by wind deposits.	8
	(ii) Features formed by river erosion.	8.
	(iii) Various Physical properties of minerals.	8
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## UNIT - II

	Describe in brief about the various geological and engine	eering properties of Rocks.
. Γ	Describe in brief about the various geological and	
2 E	are important ill solotton	
(a)	A huilding material	
(b)	1 pageagates	8+8=16
•		
	OR	
2 Wri	ite short notes on any two of the following:	
(i)	Mineralogical classification of igneous rocks.	
	a	8
(ii)	Structures of sedimentary rocks.	8
(iii)	Agents of Metamorphism.	_
` ,		. 8
	UNIT - III	
3 Dist	tinguish between joints and Faults. Write in brief a	bout the classification of
faul	ts and illustrate your answer with diagrams.	olassification of
•		
	OR	2+14=16
3 Writ	te short notes on any two of the following:	
(i)	Define unconformity and the following:	
*.*	Define unconformity and describe different types	Of uncome
Git	Describe	or unconformities.
	Describe various types of joints.	2+6=8
(iii)	How are faults reason.	
	How are faults recognised in the field?	8
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## UNIT - IV

Describe in brief about the various geological, geophysical and other investigations which need to be carried out in selection of a site for dam and Reservoir. 4

OR Describe in brief geophysical electrical resistivity methods and their uses in Civil 4 16 engineering.

Define remote sensing and describe advantages and limitation of remote sensing and G.I.S. in different fields of civil engineering. 5 2+7+7=16

## OR

- Write short notes on any two of the following: 5
  - Describe in brief about the different types of platforms used in remote sensing. 8 (i)
  - Define sensors and write in brief about the characteristics of sensors. 2+6=8 (ii)
  - (iii) Describe in brief E.M.R. and Electromagnetic spectrum.

4+4=8