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B.E./B.Tech	. DEG	REE EX			NS, NO		MBE	R/DE	CEMI	BER :	2019	
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Time : Three Ho	urs							Ma	aximu	m:10	0 Mark	S
			Answe	r ALL	questic	ons.						
				PART					(10×	2=20	Marks)
1. Mention the	thickn	ess of E	arth's ci	rust.								
2. How are roc	ks clas	sified ac	cording	to the	scale o	f wea	theri	ng?				
3. Write the in									es.			
4. Write the na												
5. Write briefly							in y					
6. Compare the				shale,	sandsto	ne. a	nd at	ıartzi	te.			
7. What are Jo							2015					
8. Define the to	erm 'Ro	ck Qual	ity Desi	ignatio	n' (RQ	D).						
9. Define remo	te sens	ing.										
10. List at least	four m	easures	to prev	ent coa	astal er	osion	ours t					
				PART	– B				(5×1	3=65	Marks)
11. a) Write ela significa									cks. W	hat is	the	
2006 1130 1130	ware.	(OR)										
b) Describe	the ge	ological v	work of	sea an	d its en	gine	ering	consid	deratio	ns.		
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12. a) Using appropriate examples from the mineral kingdom, describe the physical properties of minerals.

(OR)

- b) Describe in detail, the properties, composition and uses of Feldspar and Calcite.
- 13. a) List the various engineering properties of rocks. Describe the instrumentation required and the procedure for tests to determine these properties.

(OR)

- Describe the mineralogical composition, texture, engineering properties and uses of Dolerite, Laterite, Sandstone and Limestone.
- 14. a) What are faults? Explain in detail with sketches on (i) Normal faults (ii) Reverse faults (iii) Strike slip fault (iv) Oblique fault?

(OR)

- b) Explain in detail on electrical resistivity method and Wenner's configuration. Add a note on their application in civil engineering.
- 15. a) What are landslides? How do they occur? Describe the types of landslides with a sketch and enumerate the geological investigation required for mitigation of landslides.

(OR)

b) Explain in detail the various causes and effects of sea erosion, Add a detailed note on coastal protection measures.

PART - C

(1×15=15 Marks)

16. a) Explain with a neat sketch on how Remote Sensing is done. Add a note on applications of Remote Sensing in civil Engineering.

(OR)

b) Explain on various geological factors to be considered for Dam construction.