	Reg. No.							
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B.E. / B.Tech DEGREE EXA	MINATI	ONS,	NOV	/DI	EC 2	022		
Third S	Semester							
Civil Eng	gineering							
20CEPC305 - ENGIN	EERING	GEOL	OG!	Y				
(Regulati	ons 2020)							
ation: 3 Hours					Ma	IX. M	farks: 100	
PART - A (10 >	2 = 20 M	arks)						
AllSwei AL.	L Question						Marks.	
Mention the thickness of earth's crust							K-Level, CO	0
Define the terms i) Focus ii) Epicenter							2,K1,COI	
List the name of clay groups of min	orola						2, K1, CO1	,
Differentiate between Color and streak	of mineral						2, K1, CO2	
Define the terms hanging wall and foot	wall	5.					2,112,002 2,K1 CO4	
Classify folds	wan.						2,111,001 2 KI CO4	
What is meant by recumbent folds? Draw a neat diagram						2,K2,CO5		
Write short notes on the Attitude of bed	e a near u	lagram	•				2,K2 CO5	
A List the different types of landslides							2 KI CO6	
0 Define remote sensing						2, KI CO6		
	Question Paper Cod B.E. / B.Tech DEGREE EXA Third S Civil Eng 20CEPC305 - ENGIN (Regulati ation: 3 Hours PART - A (10 × Answer AL) Mention the thickness of earth's crust. Define the terms i) Focus ii) Epicenter. List the name of clay groups of min Differentiate between Color and streak Define the terms hanging wall and foot Classify folds. What is meant by recumbent folds? Dra Write short notes on the Attitude of bed List the different types of landslides. Define remote sensing	Reg. No. Question Paper Code 1 B.E. / B.Tech DEGREE EXAMINATI Third Semester Civil Engineering 20CEPC305 - ENGINEERING (Regulations 2020) ation: 3 Hours PART - A (10 × 2 = 20 M Answer ALL Question Mention the thickness of earth's crust. Define the terms i) Focus ii) Epicenter. List the name of clay groups of minerals. Differentiate between Color and streak of mineral. Define the terms hanging wall and foot wall. Classify folds. What is meant by recumbent folds? 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$PART - B (5 \times 13 = 65 Marks)$

Answer ALL Questions

11. a) Describe the internal structure and composition of the earth with neat ^{13,K2,CO1} sketches.

OR

- b) Make a brief note on the erosion features formed by the geological ^{13,K2,CO1} work of wind.
- 12. a) List the physical properties of minerals (Specific gravity, Luster, ^{13,K2,CO2} Cleavage, Hardness, Fracture & Crystalline characteristics) and describe each property with examples from the mineral kingdom.

OR

b) Describe the varieties, composition, properties and uses of 13,K2,CO2 gypsum, quartz and feldspar.

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create 11722

13. a) Illustrate with neat sketches on folds, classification of folds, 13,K2,CO4 folding process and their Civil engineering significance.

OR

- b) Give a detailed account of the various geological structures and their 13,K2,CO4 role in selection of sites for engineering projects.
- 14. a) Elaborate on the electrical resistivity methods of geophysical surveys 13,K2,C05 used for sub-surface/ civil engineering investigations.

OR

- b) Describe with neat diagram the various classifications of faults 13,K2,CO5 (Normal, Strike, Oblique & Reverse). Add a note on civil engineering significance of faults for surface investigation.
- 15. a) Explain about the various geological factors to be considered for the 13,K2,CO6 construction of road cuttings and construction of buildings.

OR

b) Describe the types of landslide and their causative factors with a ^{13,K2,CO6} sketch and enumerate the geological investigations required for identifying land slide prone areas and mitigation of landslides.

$PART - C (1 \times 15 = 15 Marks)$

a) Describe the mineral composition, texture, engineering properties, ^{15,K2,CO3} origin, occurrence, varieties and uses of i) Marble and ii) Sandstone & Slate.

OR

b) Discuss about the various engineering properties of rocks to be tested ^{15,K2,CO3} for constructions of buildings, dams and tunnels and explain how you will determine the engineering properties of rocks at laboratory.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 2

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