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		BE - SEMESTER-IV(NEW) – EXAMINATION – SUMMER 2019		
Subject Code:2142202 Date:1			9	
	•	ct Name: Basic Mine Surveying		
Time:02:30 PM TO 05:00 PM Total Marks:			70	
	nstruc		U	
L	iisti uc	1. Attempt all questions.		
		2. Make suitable assumptions wherever necessary.		
		3. Figures to the right indicate full marks.		
			MARKS	
Q.1	(a)	What are the fundamental lines of a theodolite?	03	
X	(b)		04	
	(c)		07	
Q.2	(a)		03	
-	(b)	Differentiate between external focusing and internal focusing telescope.	04	
	(c)	Explain the procedure of the leveling to establish underground bench mark.	07	
		OR		
	(c)	List out various types of Theodolite. Explain any one of them in brief with neat	07	
		sketch.		
Q.3	(a)		03	
	(b)		04	
	(c)	Describe closing error and it's adjustment.	07	
0.3	(\mathbf{a})	OR White the turned of errors in diel surrousing	03	
Q.3	(a) (b)		03	
	(D) (C)	Write principle of tacheometric surveying. Explain additive and Multiplying	04	
	(C)	constants.	07	
Q.4	(a)		03	
X	(b)		04	
	(c)	Write a note on measurement of Horizontal Angles and Vertical Angles.	07	
		OR		
Q.4	(a)	Write any two aims of subsidence measurements.	03	
	(b)	1	04	
	(c)	What is surveying? Give basic principle of surveying and name all the	07	
		instruments used for it.		
Q.5	(a)	Describe any two objects of leveling.	03	
	(b)		04	
	(c)	Write a note on underground levelling and subsidence survey	07	
05	(a)	OR Define the term : Transit Theodolite and Non-transit Theodolite	A3	
Q.5	(a) (b)	Define the term : Transit Theodolite and Non-transit Theodolite Write a brief note on latest equipments used for surveying.	03 04	
	(b) (c)	Explain the procedure for determining the constants by tacheometric surveying.	04 07	
		Explain the procedure for determining the constants by the content surveying.	07	
