Sanjay Ghodawat University, Kolhapur **2020-21**

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: B.Tech Final Year	**School of Technology**	**Department: Civil Engineering**
Course Code: CET429	**Course Title: Construction Methods and Equipment**	**Semester : VII**
Day : Saturday Date:26/12/2020	**End Semester Examination**	**Time:2 Hrs. Max Marks:50**

Instructions: 1) All Questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Answer the following (any Two)**–			
	a)	Explain the slip-form technique in the rigid pavement. Enlist the benefits of slipform technique.	8	3	CO1
	b)	Explain the significance of the load test and describe in details how would you like to conduct a load test for a highway girder bridge across a perennial river	8	4	CO1
	c)	Write a note on the diaphragm wall and its construction procedure with a neat sketch	8	3	CO2
Q.2		**Answer the following (any two)** –			
	a)	Explain with sketch the operation of Nuclear power station. Also, state the advantages & disadvantages of the Nuclear power station	8	3	CO2
	b)	Explain the suitability of the clamshell as construction equipment and discuss the factors affecting the productivity of the clamshell.	8	3	CO3
	c)	State the importance of matching of excavating and hauling equipment in major construction projects and how is it carried out?	8	4	CO3
Q.3		**Answer the following (any two)** –			
	a)	Write the types of compactors and principal method of compaction, also state suitability of each method with type of soil.	9	3	CO4
	b)	Illustatae trenchers? Explain with a neat sketch working of wheel type of trencher.	9	4	CO4
	c)	A large construction project needs a large quantity, of concrete. The contractor decides to atomize all the materials required to produce concrete for RMC, also transport and place the concrete to the desired location. Prepare material flow diagram from the initial stage to final position. Explain material transporting equipment at each stage.	9	5	CO4