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: T.Y B.Tech	**School of Technology**	**Department: Civil Engineering**
Course Code: CET302 R1	**Course Title: Infrastructure Engineering**	**Semester :V**
Day : Tuesday **Date : 16.02.2021**	**End Semester Examination**	**Time : 2Hrs.** **Max Marks : 50**

Instructions: 1) All Questions arecompulsory.
2) Assume Suitable Data Wherever Necessary.

		Marks	BL	CO
Q.1	Answer the following (any Two)–			
a)	Explain the various types of track junctions.	8	L2	CO1
b)	For 12.8m rail length of B.G. track, calculate the quantities of materials required for 1 km length of track. Assume sleeper density to be equal to (M+4). Type of rail 90R i.e. weight=44.7 kg/m..	8	L2	CO1
c)	Write detailed note on Superelevation in railways	8	L2	CO1
Q.2	Answer the following (any two) –			
a)	Explain linear waterway, economic span, afflux and scour depth with reference bridge.	8	L2	CO2
b)	Draw neat diagram explain rolling, pitching and yawing action of aircraft.	8	L2	CO3
c)	Explain functioning of terminal building, apron, taxiway and runway. Also draw a neat sketch representing schematic functioning of an airport with above amenities.	8	L2	CO3
Q.3	Answer the following (any two) –			
a)	Explain the methods of Tunneling in soft Rock.	9	L2	CO4
b)	Write short note on Harbor, littoral drift, and coast protection.	9	L2	CO4
c)	Enlist and explain the component of Harbor	9	L2	CO4

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