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 and Date:	End Semester Examination	Time:2 Hrs. Max Marks:50

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answerthe following (any Two)**			
a)	Explain the Permanent way with Labeled Diagram.	8	L_2	CO1
b)	Explainmaintenance of rolling stock and maintenance of surface of rails.	8	L_2	CO1
c)	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	L_2	CO1
Q.2	**Answerthe following (any two)**			
a)	Write note on i) Abutments ii) Wing walls	8	L_2	CO2
b)	Explain various site selection factors for airport construction.	8	L_2	CO3
c)	Explain the components of Aircraft with neat sketch.	8	L_2	CO3
Q.3	**Answer the following (any two)**			
a)	Write note on i) Tunnel alignment ii) Tunnel shaft iii) Pilot tunnels	9	L_3	CO4
b)	With Labeled Diagrams Explain Natural, Semi natural and Artificial Harbours.	9	L_3	CO4
c)	Explain the construction of Lighthouse with neat sketch.	9	L_3	CO4

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