BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

CL/ BR/	ASS: ANCH	BE CEE		SEMESTER: VI SESSION : SP/	2019	
SUBJECT : CE6003 TRANSPORTATION ENGG.II						
TIME:		1.5 HOURS		FULL MARKS:	FULL MARKS: 25	
 INSTRUCTIONS: The total marks of the questions are 30. Candidates may attempt for all 30 marks. In those cases where the marks obtained exceed 25 marks, the excess will be ignored. Before attempting the question paper, be sure that you have got the correct question paper. The missing data, if any, may be assumed suitably. 						
Q1	(a) (b)	Write any Compare r suitability	two the advantages of railways over water transport. railways and highways with respect to right of way, gradients '.	and curves and	[2] [3]	
Q2	(a) (b)	What is IR(Explain sw	CON? Explain its function. vitch-back method of alignment of track in a mountainous ter	rain.	[2] [3]	
Q3	(a) (b)	Write any Differentia	two advantages of coning of wheels. ate between SWR, LWR and CWR.		[2] [3]	
Q4	(a) (b)	What mate Discuss any	erial as ballast you would suggest for high speed tracks and v by three different methods adopted for subgrade improvemen	/hy? t.	[2] [3]	
Q5	(a) (b)	Why is tha On a B.G.: the value o maximum	at low gradients are provided in station yards? 3 ⁰ curve the equilibrium cant is provided for a speed of 75 k of equilibrium cant. Allowing a maximum cant deficiency, wh permissible speed on the track?	m/h. Calculate at would be the	[2] [3]	
Q6	(a) (b)	Write any Determine The maxin	two primary objectives of using transition curve. The length of transition curve for a M.G curve of 4 ⁰ having num permissible speed on curve is 60 km/h. Draw the offset	a cant of 8 cm. at every 10m.	[2] [3]	

:::: 02/03//2019 E:::::