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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Program: B Tech Civil Engineering Semester – VI

Subject (Course): Transportation Engineering -2

Course Code : CEEG332

Max. Marks : 100

Duration : 3 Hrs

No. of page/s: 02

	(Answer all questions)		
S No	Question	Marks	CO
1.	What are the social factors considered during railway alignment	5	1
2.	What is the percentage of BG, MG and NG across the country?	5	1
	How they differ from Standard gauge		
3.	Write a note on turning radius	5	5
4.	Sketch any two wheel arrangements of an aircraft	5	4
Section B	(Answer all questions)		
5.	Write a note on coning and adzing	10	2
6.	How ballast arrangement plays an important role in permanent way development	10	2
7.	(a) Calculate the cant required for a BG track of radius 300 m for train permissible speed 60 kmph (b) What is the role of economy in airport development	5+5	3,4
	E B A B E F G H G F Public highway K		
	(Answer any two questions)		
9.	 (a) Railway curve with T=320.00ft., Dc=4°00', and PI station 47+50.00 ft. trace the curve by finding the offsets (b) Write a note on cant deficiency 	15+5	3
10.	(a) How wind-rose diagram is helpful in runway design(b) What are the considerations to be taken into account when planning a new airport at city of high altitude? Justify your	10+10	5

	answers.		
11.	(a) What are the differences in development of a permanent	10+10	1,4
	way in embankment and cutting?		
	(b) Mention the key objectives of airport surveys and explain		

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