	Reg. No.:	80198
(81)	Question Paper Code : 5	0298
	ech. DEGREE EXAMINATION, NOVEMBE Sixth Semester Civil Engineering 04 – RAILWAYS, AIRPORTS AND HARBOU (Regulations 2013)	
Time: Three Ho	ours	Maximum: 100 Marks
	Answer ALL questions.	
	PART – A	(10×2=20 Marks)
1. Define creep	p in sleepers.	
2. Why the wi	dening of gauges needed in the curves?	
3. Write the si	gnificance of earthwork in railway constructio	n.
4. Define Tun	neling.	
5. Write the ol	bjectives of airport planning.	
6. Write the co	omponents of an airport.	
7. What is air	port zoning?	
8. What is me	ant by basic runway length?	
9. Differentiat	te 'jetty' and 'dolphin'.	
10. List the ero	sion protection methods in coastal zone.	
	PART – B	(5×16=80 Marks)
(16)		There is a second
11. a) i) Define	e super elevation. List the factors considering tion.	in design of super (8)
ii) Write	a note on negative super elevation and cant d	leficiency. (8)
	(OR)	
b) i) Expla	in coning of wheels with neat sketches.	(8)
ii) Comp	are the different ballast materials used for rai	lway track. (8)

50298	Sup No. :	
12. a)	Explain briefly the construction and maintenance of railway track.	(16
	Question Paper Code (OR)	
b)	Discuss the importance of track drainage. How this achieved? Explai	n in
	B.T.ch. DECREE EXAMINATION NOVEMBERDINGSMIRE liable	
13. a)	i) What are the characteristics of a good airport layout?	(8
	ii) Explain the airport master plan.	aro
	(OR)	(8
b)	List out the factors to be considered for the site selection of a commercial	airnort (16
14. a)	The length of runway at standard condition is 2500m. Determine the	
	runway length at an airport site with the following particulars.	(16
	Mean maximum daily temperature = 44.5°C  Mean average daily temperature = 28.3°C	
	Elevation of site above MSL = 350 m	
	(OR) gainneig thogan in sevices (do e	
b)	Briefly explain the night time aids provided at airports.	(16
	i) How harbours are classified? Explain using examples of Indian har	
	<li>ii) What is the function of a dry dock? Explain the working of a floatin dock.</li>	g dry (8
	(OR) constant and the state of	
b)	Why shore protection is necessary? Explain the different shore protection	
	generally carried out.	(16)
	tine super elevation, Less the factors considering in design of super	
	(20)	