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	Reg. No.	:	
ves esta un	Question Paper	r Code : 90	0337
R F /R Tac	h. DEGREE EXAMINAT	IONS NOVEME	BER/DECEMBER 2022
D.12.7D.100		h Semester	
	Civil E	ngineering	
CE 8702 — R	RAILWAYS, AIRPORTS, I	OOCKS AND HA	ARBOUR ENGINEERING
	(Regula	tions 2017)	
Time : Three ho	ours		Maximum: 100 marks
	Answer A	LL questions.	
	PART A — (1	$0 \times 2 = 20 \text{ marks}$	i) management and an are
1. What are	the functions of Ballast?		
	he main purpose of detonations warious methods of plate		signaling?
5. What are	the factors influencing th	e size of an airp	ort?
	ıld airports be spaced apa	rt sufficiently?	
			ts.
White or construction	Combination to all the suppression to all the series fall and should use the		ted of feeting
10. What do y		v 10 = 65 1	
		× 13 = 65 marks	
	strate the various classific erent classes of gradients		nys and the context in which adian Railways.
		Or	
	borate the various types on ment with neat sketch.	f horizontal and	vertical curves in a railway

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 (a) Summarize the different types of railway stations with their layout diagrams.

Or

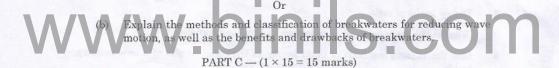
- (b) Explain the various methods of track maintenance for the easy movement of trains.
- (a) Illustrate the various surveys conducted and information collected for the site selection of an airport.

Or

- (b) Classify different aircraft parking layout patterns using neat sketches.
- (a) Explain various types of imaginary surfaces and their characteristics with neat sketch.

Or

- (b) Elaborate the various types of markings on a runway with neat diagrams.
- (a) Summarize the various classification of primary and subsidiary classification of harbours.



16. (a) In a BG yard layout, there is an unsymmetrical split of 3° and 5° curves from main line and branch line respectively. If the speed restrictions on main line is 60 kmph. Calculate the restricted speed on branch line after allowing maximum cant deficiency.

Or

(b) An airport is planned to construct at an elevation of 800 m above mean sea level. In that place the mean of maximum and mean of average daily temperature of the hottest month are 316 K (kelvins) and 302 K (kelvins) respectively. Maximum elevation difference along the proposed profile of a runway is 8 m. Basic runway length is 1700 m. Calculate the actual length of runway and classify the runway depending its actual length.

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