i. Q. No. 1 is compulsory

QP Code: 29219

(REVISED COURSE)

[Total Marks: 100

	NO	IC:	1. Q.140. I is compulsory	
			ii. Attempt any 4 out of remaining 3	
			iii. Support all theory and numerical with neat sketch	•
	1.	Α.	What would be the permissible speed on curve if on a 3° B.G track, average speed of trains is 70 kmph.	(08 M)
		13		(12 NAS
		.11.	i. What is negative super elevation	(12 Kg)
			ii. Explain Instrumental landing system.	0,0
			n. Explain histramontal landing system.	3
	2	Α	Explain various elements of railway track with fixtures and fastenings.	(08 M)
			Compare Docks and Harbour.	(06 M)
		C.		(06 M)
			O.K.	
:	3.	Α.	If the basic runway length for an airport situated at elevation of 150 meter is 1200 meter find the actual runway length required if mean of average daily temperature and mean of maximum daily temperature is obtained as 38°c and 47°c respectively. Assume the runway to be horizontal	(08 M)
		В.	Explain construction of new railway track.	(06 M)
		C.	Numbering and markings on runway.	(06 M)
	4.		Describe Marshalling yard.	(08 M)
			Explain instrumental landing system.	(06 M)
		C.	What do you mean by uniformity of gauge. What are issues of non uniform gauges?	(06 M)
	5.	Α.	If the basic runway length for an airport situated at elevation of 100 meter is 1000 meter, find the actual runway length required if mean of average daily temperature and mean of maximum daily temperature is obtained as 38°c and 47°c respectively. Assume the runway to be horizontal	(08 M)
		B.		(06 M)
		C.		(06 M)
				(00 111)
	6.	Ä.	Calculate all the elements of a turnout on B.G track if N=8.5, d=13.3 cm and angle of switch is 1 ^o 8' 0". Assume any other data if required.	(08 M)
			Explain various rail failures	(06 M)
		C.		(06 M)
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	7.		Marshalling yard. Semaphore signal.	(20 M)
			Marshalling yard.	
			Semaphore signal.	
		(]	meriocking of signar and points ()	
		D.	Turning radius of an aircraft.	
		E. (Components of airport.	. * *
			TY.	
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			Turning radius of an aircraft. Components of airport.	

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