TE-sem-S-01d-Gvil

1/12/15

## **QP Code: 1692**

## (REVISED COURSE) (3 Hours)

[Total Marks: 100

			' ,
h		i. Q. No. 1 is compulsory	" a
Not	3:	ii. Attempt any 4 out of remaining 3	95.
		11. Attempt any 4 out of remaining 5	1.1.
		iii. Support all theory and numerical with neat sketch	J. Dr.
		B. C. Arreck if N=0. E. d=12.3 cm and angle of switch is 10.8.	(08 M)
1.	A.	Calculate all the elements of a turnout on B.G track if N=8.5, d=13.3 cm and angle of switch is 10 8.	(00 111)
		O". Assume any other data if required.	(12 ) (1)
	B.		(12 M)
		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	
		and the second s	
2.	Α.	Explain various elements of railway track with fixtures and fastenings.	(08 M)
-	B.	Describe Dry docks.	(06 M)
	Č.	Explain airport obstructions.	(06 M)
	· .	Explain airport door downers	
3.	Α.	What are various visual aids? Explain their role in safety and efficiency of airport.	(M 80)
.1.	В.	Explain construction of new railway track.	(06.M)
		Describe numbering and markings on runway.	(06 M)
	C.	Describe numbering and markings on runway.	
,		What would be the permissible speed on curve if on a 60 B.G track, average speed of trains is	(08 M)
4.	A.	70 kmph and allowable cant deficiency is half that of maximum cant deficiency.	(,
		70 kmpn and anowable can't derive by that that of maximum same deriversey.	(06 M)
	В.	Explain instrumental landing system.  Explain uniformity of gauge. What are issues of non uniform gauges?	(06 M)
1	C.	Explain uniformity of gauge. What are issues of non uniform gauges:	(00 111)
_		If the basic runway length for an airport situated at elevation of 100 meter is 1000 meter, find	(08 M)
5.	A.	the actual runway length required if mean of average daily temperature and mean of	(00 111)
		the actual runway length required it 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	(0( )4)
	· B.	Explain various factors affecting capacity of an airport.	(06 M)
	C.	Explain various theories of creep.	(06 M)
			(00.14)
6.	A.	Draw Layout of artificial harbour and explain purpose of each component.	(M 80)
	B.		(06 M)
	C.	What are breakwaters? Discuss its types.	(06 M)
			(= 0 . ()
7.	WI	ite short note on any 4.	(20 M)
		Marshalling yard.	
	B.	Semaphore signal.	
	C'.	Interlocking of signal and points.	
		Turning radius of an arreraft.	
		Components of airport.	

QP Con. 9258-15.