## TE CIVIL V- CBGS

## Frans. Engg-I

23.5.16

QP Code: 31119

		'(3 Hours) [Total Marl	ks: 80
N	ote:	<ul> <li>i. Q. No. 1 is compulsory.</li> <li>ii. Attempt any 3 out of remaining.</li> <li>iii. Support all theory and numerical with neat sketches.</li> </ul>	
1.	a	the actual runway length required if mean of average daily temperature and mean of maxidaily temperature is obtained as 36°C and 42°C respectively. Assume the effective gra of 2% on the runway.	inium idient
51 E#A	b	switch is 1° 8' 0". Assume any other data if required	gle of (08)
	С	Day out of artificial flatoout and explain purpose of each component.	(04)
2.	a b c	Explain various elements of railway track with fixtures and fastenings.  Write a note on Dry docks.  Explain zoning laws for an airport.	(08) (06) (06)
3.	a b c	What are various air traffic control aids? Explain their role in safety in aircraft movements Explain construction of new railway track.  Describe numbering and markings on runway.	(06) (06)
4.	a b	What would be the permissible speed on curve if on a 6° B.G track, average speed of train 70 kmph and allowable cant deficiency is half that of maximum cant deficiency.	ns is (08)
	С	Describe special features of airport drainage.  Explain working of Semaphore signals	(06)
5.	a b c	What do you mean by Interlocking of signal and points? How is it achieved? Explain various factors affecting capacity of an airport. Explain various Special Breakwaters.	(08) (06) (06)
5.	ANTI, MCC. TERE	Write short note on (Any 4)  a) Marshalling yard. b) Types of signals based on location. c) Theories of creep.	(20)
	×	d) Turning radius of an aircraft. e) Three controls of aircraft.	