Total 1	No.	of Questions : 4]	SEAT No.:
PC-	18(		[Total No. of Pages : 2
[6361]-38			
B.E. (Civil) (Insem.)			
AIRPORT AND BRIDGE ENGINEERING			
(2019 Pattern) (Semester - VII) (401004D) (Elective - IV)			
(2)	01)	Tuttern) (semester = VII) (401)	(Licetive - Iv)
Time	. 1 1	Hourl	[Max. Marks : 30
Time: 1 Hour] [Max. Marks: 30 Instructions to the candidates:			
	10110 1)	Answer Q1 or Q2, Q3 or Q4.	26.
	2)	Neat diagram must be drawn wherever nec	cessary.
	3)	Figures to the right indicate full marks.	3
4	<b>4</b> )	Assume suitable data if necessary.	
		26.	
<b>Q</b> 1) a	a)	Examine suitability of navigation and land	ding aids- ILS for Airports. [5]
	b) \(\)	Enlist essential parts of Aircraft with figur	
ι	U)		
(	c)	Explain Air Traffic Control (AFC).	[5]
		OR	
<i>Q</i> 2) a	a)	Discuss the characteristics of layout of A	irport. [5]
~ /			
ł	b)	Give the functions of ICAO.	[5]
(	c)	Discuss in brief how Instrument Landing	g System approach is useful in
		bad weather condition.	\$ [5]
		O. A.	
<b>()2</b> ) a	o)	Determine the leveth of the supryey to be	provided of ari) Correction for
Q3) a	a)	Determine the length of the runway to be pelevation and ii) Correction for temperature	-
		landing at sea level in standard atmospheric	- 50
		elevation is 200m and reference temper	
	C	temperature in the standard atmosphere f	_
	1	and runway slope is 0.5 %.	[5]

- Describe any five major elements influencing the planning of airports.[5]
- What is function of taxiway in airports? Draw cross sections of taxiway showing all components. [5]

  OR

  P.T.O.

- Q4) a) Length of runway under standard condition is 1620m with an elevation of 270m having airport reference temperature (ART) is 33° C and having effective gradient is 20 %. Calculate the corrected length of runway. Use and apply necessary checks.
  - b) Explain the types of imaginary surfaces of airport obstruction with neat sketch. [5]
  - c) What are the factors to be considered in the geometric design of a run way.

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