Total	No. o	of Questions : 4]	SEAT No. :
P-51	186		[Total No. of Pages : 2
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B.E. (Civil) (Insem.)			
AIRPORT AND BRIDGE ENGINEERING			
(2019 Pattern) (Semester - VII) (Elective - IV) (401004D)			
(201) Tattern) (Semester - VII) (Elective - IV) (401004D)			
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Time: 1 Hour] [Max. Ma Instructions to the candidates:			[Max. Marks : 30
	1)	Answer Q1 or Q2, Q3 or Q4.	
	<i>2</i>)	Neat diagrams must be drawn wherever necess	sary.
,	3)	Figures to the right indicate full marks.	:
	<i>4</i>)	Assume suitable data, if necessary.	
		- X-	S. Company
Q 1)	a) (Examine suitability of navigation and landing	g aids - ILS for Airports.[5]
	b)	Inspect the role and functions of ICAO, FA	A. [5]
	c)	Explain Air Traffic Control (ATC).	[5]
		OR	
<i>Q</i> 2)	a)	Discuss the characteristics of layout of Airpo	ort. [5]
	b)	Appraise zoning requirements regarding	o permissible heights of
	U)	constructions and landing within the airport	
	۵)		
	c)	Discuss in brief how Instrument Landing Sy bad weather condition.	[5]
Q3)	a)	Determine the length of the runway to be pro-	vided aftern) Correction for

- Q3) a) Determine the length of the runway to be provided after i) Correction for elevation and ii) Correction for temperature if runway length required for landing at sea level in standard atmospheric condition is 2500. Aerodrome elevation is 200m and reference temperature is 24 degree Celsius, temperature in the standard atmosphere for 200m is 15 degree Celsius and runway slope is 0.5 %.
 - b) Discover how basic runway length is calculated and how corrections are made to it. [5]

c) What is function of taxiway in airports? Draw cross sections of taxiway showing all components. [5]

OR

- 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) Critcize master plan of one the busiest airport in the world. [5]
 - c) What are the factors to be considered in the geometric design of a runway.

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