Name: **Enrolment No:**	UPES UNIVERSITY OF TOMORROW

UPES

End Semester Examination, Dec 2024

Course: MBA AVM **Semester: 3**

Program: Aerodrome Design & Operations **Time : 03 hrs.**

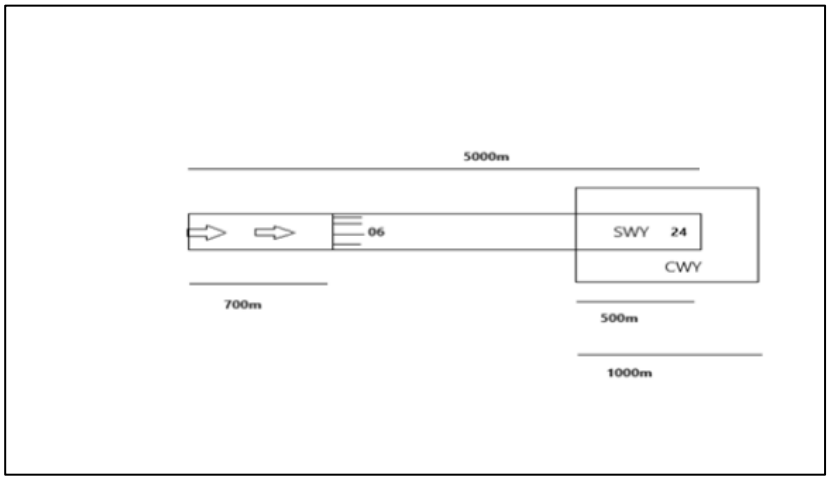
Course Code: TRAV 8002 **Max. Marks: 100**

Instructions: ***(Note: For all sections, answer as per CAR Section 4 Series B Part 1)***

SECTION A
10Qx2M= 20Marks

S. No.		Marks	CO
Q 1	Full Form of a. DARK b. OMGWS	**2**	
Q2	AIRAC System consists of a. 40 days b. 41days c. 42days d. 45days	**2**	
Q3	Secondary Power Supply Sources at Airport are: a. DG Set b. UPS c. a or b d. a & b	**2**	
Q4	Second section of Approach surface consists of a. Slope 2% & Distance 3000m b. Slope 2.5% & Distance 3600m c. Goes Horizontal & Distance 8400m d. Slope 2.5% and Distance 3000m	**2**	
Q5	Aerodrome Identification Beacon Emits a. Flashes of Yellow & Green b. Flashes of Yellow & Blue c. Morse Code d. Flashes Red	**2**	

Q6	 Identify the Airfield Signage a. Taxiway End Signage b. No Entry c. Road Holding Position d. None of the Above	**2**	
Q7	Inner Guage difference between TDZ marking shall be a. 47.5m b. 18 m c. 9m d. 4.5m	**2**	
Q8	What is the Runway Width excluding shoulders for Code C operations a. 45m b. 35m c. 55m d. 60m	**2**	
Q9	Inner Horizontal Surface has a radius of a. 2000m b. 4200m c. 4000m d. 15000m	**2**	
Q10	Length of Radio Altimeter Operating Area before threshold is a. 300m b. 60m c. 3000m d. 3600m	**2**	
SECTION B **4Qx5M= 20 Marks**			
Q 11	Explain the Application, Color & Characteristics of (2.5 X 2 = 5) a. RETIL b. Aircraft Stand Maneuvering Guidance Lights.	**5**	**CO3**
Q 12	An antenna of 70m height must be installed before the threshold of Runway 14. Calculate suitable distance for installation?	**5**	**CO3**
Q 13	Identify the 3 measures adopted by Aerodromes for denoting unserviceable areas.	**5**	**CO3**
Q 14	What are the slopes percentages for the following.	**5**	**CO3**

	a. Transverse Slop of Runway, b. Transverse Slop of Runway Strip, c. Longitudinal Slope of RESA, d. Longitudinal Slope of Apron e. Transverse Slop of Taxiway		
SECTION-C 3Qx10M= 30 Marks			
Q 15	Design a Full Parallel Runway 09R with proper Specifications & Distances.	**10**	**CO2**
Q 16	Explain Characteristics & Slope. (5 X 2 = 10) a. Balked Landing Surface b. Inner Transitional Surface	**10**	**CO3**
Q 17	Explain all three Wild life Strike reporting methods along with strike mitigation measures.	**10**	**CO3**
SECTION-D 2Qx15M= 30 Marks			
Q 18	 <u>Calculate</u> TORA, TODA, ASDA & LDA for RWY 06 & 24.	**15**	**CO4**
Q 19	Draw a detailed schematic diagram of the CAT II Precision Approach lighting system with barrettes and explain with proper dimensions.	**15**	**CO4**