Name:	
Enrolment No:	

UPES
End Semester Examination, May 2023

Course: Airport Capacity Management
Program: BBA AVM
Course Code: TRAV 2008P

Semester: IV
Time : 03 hrs.
Max. Marks: 100

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q 1	What is Aeroplane Reference Field Length?	2	CO1
Q 2	Define Variable Taxi Time.	2	CO1
Q 3	Runway shoulder must be provided to ensure _____, _____, _____, and _____.	2	CO1
Q 4	What is "Spalling"?	2	CO1
Q 5	Define "VDGS".	2	CO1
Q 6	Differentiate between AXIT and AXOT.	2	CO1
Q 7	What is "AMAN"?	2	CO1
Q 8	Define "ARIWS".	2	CO1
Q 9	Define Fillets.	2	CO1
Q 10	What is photometric testing in airfield lighting?	2	CO1

SECTION B
4Qx5M= 20 Marks

Q 11	Calculate declared distances for both runways with the following characteristics. The serviceable physical length of the runway 09/27 – 3965 m Runway 09 • Threshold Displaced by 410 m • Stopway – 225 m • Clearway – 330 m Runway 27 • Threshold Displaced by 222 m • Stopway – 432 m	5	CO2

	• Clearway - NIL		
Q 12	Discuss the factors affecting apron layout design.	**5**	**CO2**
Q 13	Explain the factors on which gate occupancy time depends.	**5**	**CO2**
Q 14	Explain the difference between functional and structural evaluation.	**5**	**CO2**
SECTION-C **3Qx10M=30 Marks**			
Q 15	Analyze the different systems of aircraft parking and their suitability.	**10**	**CO3**
Q 16	Analyze the various methods used for designing flexible airport pavements.	**10**	**CO3**
Q 17	Compare VASI and PAPI lighting systems. **OR** Analyze the different methods of estimating noise impacts of airport activity.	**10**	**CO3**
SECTION-D **2Qx15M= 30 Marks**			
Q 18	Analyze how the "DIGI YATRA" ecosystem is transforming the air travel experience at major Indian airports.	**15**	**CO4**
Q 19	Analyze how Milestone Approach is critical for the Airport CDM program. **OR** Compare annual capacity and seasonal capacity with examples.	**15**	**CO4**