



Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Airport Planning and Management
Program: MBA AVM
Course Code: TRAV 7002

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

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q 1	Define “ASDA”.	2	CO1
Q 2	What is “TORA”?	2	CO1
Q 3	The taxiway centre line marking shall be continuous except where it intersects with..... (a) other taxiway (b) apron (c) runway and intermediate holding position (d) should be continuous throughout	2	CO1
Q 4	Runway marking shall always be of color and the taxiway marking shall be of color. a) yellow, conspicuous b) white, red c) white, yellow d) yellow, white	2	CO1
Q 5	Define “ACDM”.	2	CO1
Q 6	What is Bollard?	2	CO1
Q 7	If the bearing strength of a composite pavement, behaving like a flexible pavement and resting on a high strength subgrade, has been assessed by aircraft experience to be PCN 50 and the maximum tyre pressure allowable is 1.25 MPa, then the reported information would be _____.	2	CO1
Q 8	Identify any four obstacle limitation surfaces.	2	CO1
Q 9	What is a “Hot Spot” area at aerodrome.	2	CO1
Q 10	Examine the role of ATC in aviation.	2	CO1

SECTION B
4Qx5M= 20 Marks

Q 11	Examine the various types of terminal designs with examples.	5	CO2
Q 12	The runway length for an airport located at 450 m above MSL, corrected for elevation is 3670 m. The monthly means of maximum and mean daily temperature for the hottest month of the year are 27 C and 18 C respectively. What will be the final corrected length of the runway with correction incorporated also due to temperature effects? a) 4500 m b) 4000 m c) 3750 m d) 3400 m	5	CO2
Q 13	Explain the assumptions in calculating the basic runway length.	5	CO2
Q 14	Illustrate principle ground handling services at airports.	5	CO2
SECTION-C 3Qx10M=30 Marks			
Q 15	Analyze how runway configurations affect airport capacity and delay.	10	CO3
Q 16	Analyze how Metaverse would impact airport operations in future.	10	CO3
Q 17	Analyze the security screening process at airports.	10	CO3
SECTION-D 2Qx15M= 30 Marks			
Q 18	Aviation markets are becoming increasingly deregulated which has offered new opportunities for airlines and provided a chance for greater competition. One of the most visible impacts of this has been the rise of the low cost carrier (LCC) sector that has revolutionized the airline industry and placed new and challenging demands on the airport industry. Many airports serving LCCs have experienced dramatic growth rates in passengers, but at the same time have had to respond and adapt to the characteristic volatile nature of such airlines. As a result in the USA, Europe and else where, there have been substantial changes in the network and spatial distribution of short-haul air services and the role that airports now play. Critically analyze airport and LCC relationship with relevant examples.	15	CO4
Q 19	Analyze how social media impacts airport and its stakeholder relationship.	15	CO4