Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, May 2021

Course : Aviation Regulatory Management Semester: IV
Programme : MBA (AVM) Time: 03 hrs.
Course Code: TRAV 8007 Max. Marks: 100

Instructions: All questions are compulsory

SECTION A (30 Marks)

1. Each Question will carry 5 Marks

2. Answer the following questions pointwise strictly.

S. No.	Questions			CO
Q 1	The capacity at each category of routes in Route Dispersal Guidelines is measured in			CO3
Q 2	Match the opportunities and challenges in various sub-sectors covered in the NCAP 2016			CO1
	Column 1: Opportunities Column 2: Challenges			
	A. Regional connectivity: Revival of unserved and underserved airports	A. Development of airports, attracting airlines to start operations on non-profitable regional routes		
	B. 5/20 to 0/20 rule: Fair competition for new entrant airlines	B. Benefit to only one airline		
	C. Airports developed by State Govt, Private sector or in PPP mode: Promotion of various ownership models for airport development	C. Development of sound concession agreements for every ownership model		
	D. Maintenance, Repair and Overhaul: MRO business in India is nearly 5000 crore, 90% of which is spent outside	D. Development of technology, knowledge base and business environment		
Q 3				CO3
	 A. A cap of 25 per cent of RCS flights in each region B. A minimum of 3 and a maximum 7 regional connectivity scheme flights per wee per route C. RCS is applicable on route length between 200 to 800 km with no lower limit set for hilly, remote, island and security sensitive regions. D. The RCS will be in operation for ten years with individual route contracts to be for three years 			

Q 4	Arrange the types of economic regulation in DESCENDING order of government control		CO1
	 Deregulation Government provision Heavy-handed regulation Light-handed regulation Economic oversight 		
Q 5	Which of the following type of regulation requires a comparison between a groups of similar airports?	5	CO2
	A. Rate of return regulationB. Yardstick regulationC. Light-handed regulationD. Price-cap regulation		
Q 6	Which of the following type regulation incorporates an efficiency factor in price control?	5	CO2
	A. Price-cap regulation B. Rate-of-return regulation C. Yardstick regulation D. Light-handed regulation		
	SECTION B (50 Marks)		
	question will carry 10 marks action: Answer precisely, write legibly and stepwise.		
Q 7	What are the characteristics of a natural monopoly? Why do natural monopolies require economic regulation?	10	CO1
Q 8	Outline the steps involved in aeronautical tariff setting for Indian airports by AERA	10	CO1
Q 9	Define the various categories of routes under the Route Dispersal Guidelines with examples of each category.		CO3
Q 10	What do you mean by single till and dual till model? Which till model is advantageous from the perspective to airports and airlines? Describe the till model used for Indian airports.		CO2
Q 11	The bidding process of Delhi and Mumbai international airports consisted of four phases given below. Explain any ONE phase in detail.		CO4
	Phase I Mandatory Requirements Phase II Financial Commitment Phase III Technical Pre-qualification Phase IV Financial Consideration		

SECTION-C (20 marks)

1. Read the following caselet carefully.

2. Instruction: Solve systematically showing sample calculations and write legibly.

Q 12 Considering the aeronautical tariff order of an international airport for the control period (2016-17 to 2020-21), calculate the Aggregate Revenue Requirement (ARR) as per the AERA philosophy using the data given in the table below:

Particulars/ Financial year	2016-17	2017-18	2018-19	2019-20	2020-21
Average RAB (Rs Cr)	163.0	132.4	98.0	105.6	125.4
FRoR (%)	14%	14%	14%	14%	14%
Return on Avg RAB (Rs Cr)	22.8	?	?	?	?
Depreciation (Rs Cr)	41.9	36.3	32.6	30.8	32.0
OPEX (Rs Cr)	131.5	108.9	115.5	122.7	130.5
Tax (Rs Cr)	0.0	32.9	43.8	55.7	65.1
Less 30% NAR (Rs Cr)	18.3	19.9	21.7	23.6	26.7
ARR per year (Rs Cr)	177.9	?	?	?	?
Discount rate	0%	14%	?	?	?
Discount factor	1	0.8772	?	?	?
PV of ARR (Rs Cr)	177.9	?	?	?	?

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RAB = Regulatory Asset Base

FRoR = Fair Rate of Return

OPEX = Operational Expenses

NAR = Non-aeronautical Revenue

PV = Present value

Calculate the missing values in the table (all values for FY 2016-17 are already given for reference).