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Question Paper Code: AAE527



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech VI Semester End Examinations (Regular) - May, 2019

Regulation: IARE – R16

## AIRPORT PLANNING AND MANAGEMENT

Time: 3 Hours

(AE)

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

### UNIT – I

- (a) Categorize the different hub classifications described in the NPIAS?

(b) Criticize public relations role is an important function of airport management? [7M]
- (a) Write the short note on national plan of integrated airport systems (NASP), and its categories. [7M]

(b) What was the function of DLAND? Discuss the role of complexity of airline planning. [7M]

### UNIT – II

- (a) Describe briefly about the historical development of airport terminals with neat sketch [7M]

(b) List out the different types of signs that are located on an airfield? How are they marked? What do they mean? [7M]
- (a) Classify types of airport beacons exist? What do the different lighting combinations mean? [7M]

(b) List out the different classes of airspace that exist in the current NAS? How do these classes vary in location and air traffic control regulations? [7M]

### UNIT – III

- (a) List the equipment's in general aviation airport? Why is a snow and ice control plan so important at some airports? [7M]

(b) What are some of the control techniques associated with bird and wildlife hazard management? [7M]
- (a) When do airports have to conduct a study and provide a wild life management program? Discuss the hazards that can be caused by birds at airports and various techniques that are used to control those hazards. [7M]

(b) Define perimeter security. Discuss the different techniques viz., perimeter fencing, controlled access gates, security lighting used for perimeter security at commercial service airports. [7M]

#### UNIT – IV

7. (a) Define residual cost approach? Compare residual cost and compensatory cost approaches. [7M]  
(b) Classify various types of privatization that exist in the case of airports? How do each of these strategies differ? [7M]
8. (a) Estimate the services priced for airport facilities? Explain in detail about airport financial accounting? [7M]  
(b) Express the four categories of operation & maintenance expenses that exist at airports? What specific expenses lie within each category? [7M]

#### UNIT – V

9. (a) Describe various simulation models used to estimate airport capacity. [7M]  
(b) Analyze the queuing theory to estimate delays in general and in the context of airports? [7M]
10. (a) What is analytical estimates of delay? Draw the queuing diagram. [7M]  
(b) List the factors affecting capacity and delay? Write short note on approaches to reducing delay. [7M]

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