

Code No: 07A72107

R07

Set No. 2

IV B.Tech I Semester Examinations, November 2010

AIRPORT MANAGEMENT

Aeronautical Engineering

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. How does an aircraft fleet mix affect capacity at an airport? [16]
2. What is the purpose of runway threshold markings? Explain the difference between a displaced threshold and a relocated threshold. [16]
3. Explain how Airspace is divided into different classes. [16]
4. What is a Gantt chart? How can the Gantt charts help airport management? [16]
5. Discuss the different types of ownership existing for airports. [16]
6. What are majority-in-interest clauses? How do these clauses affect the airport management? [16]
7. What is spalling in the context of airport pavements? Describe the procedure of evaluation of pavement system using non-destructive testing techniques. [16]
8. How can airports prepare themselves better for future threats to civil aviation security? Explain in detail. [16]

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Set No. 4

IV B.Tech I Semester Examinations, November 2010
AIRPORT MANAGEMENT
Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is the theoretical definition of capacity? What is the difference between throughput capacity and practical capacity? [16]
2. Explain briefly the main functions of Directorate General of Civil Aviation (DGCA) in India. [16]
3. What are Visual Flight Rules (VFR) and Instrument Flight Rules (IFR)? [16]
4. Why is surface friction of runway pavements an important factor? What is dynamic / viscous hydroplaning and how can it be reduced? [16]
5. What is biometrics? Explain some of the technologies that are considered to apply biometrics to the airport security environment. [16]
6. What are off-airport terminals? What is their future potential? [16]
7. Which are the areas of airport operations that may be considered principal areas of potential litigation? [16]
8. Discuss the various types of navigational aids located on airfield to aid aircraft to fly between locations and to approach an airport for landing. [16]

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Set No. 1

IV B.Tech I Semester Examinations, November 2010
AIRPORT MANAGEMENT
Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Why is snow and ice control plan so important at some airports? Discuss the most common methods for snow and ice removal from airfields. [16]
2. What do you understand by Flight Levels? Explain them briefly. [16]
3. How do runway configurations affect capacity of and delay at airports? [16]
4. Why are 'public relations' such important functions of airport management. [16]
5. Discuss the factors influencing the demand for ground access to airport. [16]
6. Which types of financing programs, or bond issues, are available to airports? Explain in detail. [16]
7. Discuss with the help of diagrams runway's imaginary surfaces that are needed for aircraft to safely operate during take-off and landing. [16]
8. What is 'Trusted Traveller Program' for aircraft security? How does it compare with CAPPS II? [16]

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Set No. 3

IV B.Tech I Semester Examinations, November 2010

AIRPORT MANAGEMENT

Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. Describe the technologies that are used to perform the screening of carry-on baggage at airports. What is piggybacking? [16]
2. What are the various approaches to reduce delay at airports? [16]
3. Explain the responsibilities of the controllers operating at control towers. [16]
4. What are the instructions and procedures that the snow and ice control plan shall include? Discuss in detail in the context of a typical snow and ice control plan. [16]
5. Is a good accounting system needed for airports? Justify your answer. Discuss the various areas of liability coming under airport expenses and their coverage through airport liability insurance. [16]
6. What is the mobile lounge concept? Discuss about Automated Passenger Movement Systems (APM). [16]
7. Describe the three types of runway markings and discuss their differences. [16]
8. What are the primary objectives of an airport's public relations process? [16]
