

Code No: 07A72107

R07

Set No. 2

IV B.Tech I Semester Examinations, MAY 2011

AIRPORT MANAGEMENT

Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. What are the different types of signs that are exhibited on an airfield? How are they marked? What do they mean? [16]
2. Describe the different types of airport terminal geometries and discuss their advantages and disadvantages. [16]
3. What are the two types of the accepted simulation models that exist for estimating the airport capacity? [16]
4. How is an airport's Aircraft Rescue and Fire Fighting (ARFF) index determined? What are the ARFF requirements of an airport based on its index? [16]
5. What are the principal duties of a typical airport manager at a medium-size commercial airport? [16]
6. Which are the areas of airport operations that may be considered principal areas of potential litigation? [16]
7. How can airports prepare themselves better for future threats to civil aviation security? Explain in detail. [16]
8. Describe the different types of the air traffic management strategies being developed to enhance aircraft movement through the National Airspace System of USA. [16]

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Set No. 4

IV B.Tech I Semester Examinations, MAY 2011
AIRPORT MANAGEMENT
Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the goals of an airport's safety inspection program. [16]
2. Explain briefly the main functions of Directorate General of Civil Aviation (DGCA) in India. [16]
3. What are the various factors that affect capacity of and delay at airports? [16]
4. How has airport security traditionally adapted to civil aviation threats? [16]
5. What are majority-in-interest clauses? How do these clauses affect the airport management? [16]
6. How are runways identified on an airfield? Discuss with sketches. [16]
7. What is Automated Dependent Surveillance (ADS)? How does ADS-A differ from ADS-B? [16]
8. Describe the technologies that exist and are being developed to improve ground access to airports. [16]

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Set No. 1

IV B.Tech I Semester Examinations, MAY 2011
AIRPORT MANAGEMENT
Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are the objectives of air traffic control service? What is the purpose of Controlled airspace? [16]
2. Discuss the different modes that typically provide ground access to airports. [16]
3. Which are the four categories of Operation & Maintenance expenses that concern the airports? Specify the expenses that fall within each category. [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. Why are 'public relations' such important functions of airport management. [16]
6. What is ROT (Runway Occupancy Time)? How does ROT affect airport capacity? [16]
7. What is biometrics? Explain some of the technologies that are considered to apply biometrics to the airport security environment. [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. 3

IV B.Tech I Semester Examinations, MAY 2011
AIRPORT MANAGEMENT
Aeronautical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss the difference between a private airport and a public use airport.
(b) Discuss different types of hub classifications for airports. [8+8]
2. What is the purpose of special use airspace? What are the functions of an air traffic controller? [16]
3. How does an aircraft fleet mix affect capacity at an airport? [16]
4. What are off-airport terminals? What is their future potential? [16]
5. What is 'Trusted Traveller Program' for aircraft security? How does it compare with CAPPS II? [16]
6. 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]
7. Which types of financing programs, or bond issues, are available to airports? Explain in detail. [16]
8. Discuss the different technologies that exist on airfields to aid aircraft on approach to landing. [16]
