

Code No: 07A72107

R07

Set No. 2

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is the purpose of runway threshold markings? Explain the difference between a displaced threshold and a relocated threshold. [16]
2. What are the different aircraft parking configurations that exist at airports? When is each type of parking configuration most applicable? [16]
3. What is LAHSO (Land and Hold Short Operations)? What are the advantages and disadvantages of LAHSO in the context of airport capacity? [16]
4. Discuss the different types of ownership existing for airports. [16]
5. How are airport facilities and services priced? [16]
6. What is free flight? How is free flight expected to change aircraft navigation through the National Airspace System (NAS) of USA. [16]
7. Enumerate and elaborate the most significant changes in airport security of USA as a result of the events of September 11, 2001. [16]
8. What is spalling in the context of airport pavements? Describe the procedure of evaluation of pavement system using non-destructive testing techniques. [16]

Code No: 07A72107

R07

Set No. 4

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the residual cost and compensatory cost approaches and discuss the primary differences between them. [16]
2. Explain the procedures associated with an airport's safety inspection program. [16]
3. What is the theoretical definition of capacity? What is the difference between throughput capacity and practical capacity? [16]
4. What are the four components of public with which an airport deals with? Explain. [16]
5. What is a Gantt chart? How can the Gantt charts help airport management? [16]
6. Discuss air traffic control and surveillance facilities located on the airfield. [16]
7. Discuss controlled access and biometrics technologies used for security at commercial service airports. [16]
8. What are the different types of special-use airspace? How does each affect the movement of aircraft in their vicinity? [16]

Code No: 07A72107

R07

Set No. 1

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are the regulatory bodies that coordinate and control civil aviation activities in India? Explain them briefly. [16]
2. What are the four components that make up an airport? Explain through a schematic diagram. [16]
3. What do you understand by Flight Levels? Explain them briefly. [16]
4. Summarize the hazards associated with birds and wildlife in the vicinity of an airfield. [16]
5. Define perimeter security and discuss the different techniques viz., perimeter fencing, controlled access gates, security lighting used for perimeter security at commercial service airports. [16]
6. What is the mobile lounge concept? Discuss about Automated Passenger Movement Systems (APM). [16]
7. How is queuing theory used to analytically estimate delays in general and in the context of airports? [16]
8. What are the forms of privatization that exist in the case of airports? How do each of these strategies differ? [16]

Code No: 07A72107

R07

Set No. 3

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

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is airport accounting? What are the different types of budget strategies used for airports? [16]
2. What are the components of the airport terminal? Discuss about apron and gate system. [16]
3. What is a time-space diagram? How can a time-space diagram be used in estimating runway capacity? Explain in detail. [16]
4. What is the difference between a port authority and an airport authority in terms of airport ownership and operation? [16]
5. How are the taxiways identified on an airfield? Explain. [16]
6. Discuss about Computer Assisted Passenger Pre-Screening System (CAPPS II) for aircraft security. [16]
7. 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. [16]
8. How does Global Positioning System (GPS) work? Describe the different technologies that enhance the capabilities of GPS. [16]
