

**Code No: C7604**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012  
AIR TRANSPORTATION SYSTEMS  
(AEROSPACE ENGINEERING)**

**Time: 3hours****Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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1. Comment on the oligopolistic nature of the airline industry and give points to support your comments.
2. Explain the challenges faced by the air transportation industry in meeting the requirements of the market and focus on the strategies followed to overcome these challenges.
3. Explain the operational aspects of an Airline and Airport. What are the major hurdles in their development? Discuss.
4. What are the characteristics of good operable runway? Discuss.
- 5.a) Define communication, navigation and surveillance systems.  
b) Write a short note on ICAO future air navigation system.
6. Discuss how the maintenance of an aircraft is carried out. Briefly explain the importance of 'D' check.
7. Focus on the critical issues which constrain the growth of aerospace industry and how they are handled.
8. Discuss the factors to be considered during airline scheduling.

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