

R09

Code No: 58090

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2017

AIRPORT PLANNING AND OPERATIONS

(Aeronautical Engineering)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) What are the requirements necessary for an airport to be classified as a reliever airport?
b) What purposes do general aviation airports serve? [8+7]
- 2.a) Discuss in detail about financial plans in construction of airport?
b) What is the mobile lounge concept? How did the advent of APM systems affect the construction of airport terminals? [7+8]
- 3.a) What are the different processes that comprise the passenger handling system at airport terminals?
b) What are some factors influencing the demand for ground access? [8+7]
- 4.a) Describe in detail collection, sorting and distribution related to Baggage handling.
b) Write down the major differences between in-bound baggage system and out-bound baggage system. [8+7]
- 5.a) Discuss in detail the philosophies of terminal management. Also explain the terminal managerial function.
b) Explain briefly various airline related operational functions with suitable flow diagrams. [8+7]
- 6.a) State the concept of Cargo Apron. Explain the process with neat schematic layout.
b) Describe in detail the freight operations for an integrated carrier. How an integrated carrier is characterized? [7+8]
- 7.a) How did the implementation of radar affect the nation's air traffic control system?
b) What are TFRs? Why have TFRs been implemented? How do TFRs affect airspace and the air traffic control system? [7+8]
8. Write a short note on Airport access. Explain in town and off- airport terminal access with sketches. [15]

--ooOoo--