

R09

Code No: 58090

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, April - 2018

AIRPORT PLANNING AND OPERATIONS

(Aeronautical Engineering)

Time: 3 Hours

Max. Marks: 75

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

- 1.a) "Is simulation of airport planning and operation is beneficial", If it beneficial then in what context. Justify your answer with suitable examples.
- b) Explain through a diagram the functional structure of Air Traffic Management System indicating the approximate time horizon for each function. [8+7]
2. Discuss Setting up an airport- airport demand, airport sitting, runway characteristics-length, and airport plan layout. [15]
- 3.a) Explain in brief about the departure control and division of ground handling responsibilities.
- b) What are the factors to be considered for the handling of passengers? [8+7]
- 4.a) With the help of example explain in brief about the different routing system.
- b) Explain the impact of airline irregular operation & disruption of schedule on the growth of the aviation industries. [8+7]
- 5.a) Explain about the philosophies of terminal management.
- b) Describe the Runway capacity, Maneuvering area, Passenger terminals and airport demand. [8+7]
- 6.a) Describe the different levels of aircraft boarding strategy?
- b) Explain the influence of air cargo market- expanding the movement. [8+7]
7. Consider an example of case study of airline operation and Scope of technical services. Explain in brief about its studies performed on various aspects. [15]
- 8.a) What are the fundamentals which has to be followed while accessing with the passenger?
- b) What are the advantages and disadvantages of in-town and off-airport terminals? [8+7]

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