



**III Semester M.B.A. in Aviation Examination, October 2011**  
**AIRLINE ROUTE PLANNING**  
**(January 2010 Batch) and Re-sit (July 2009 Batch)**

Time : 3 Hours

Max. Marks : 80

- Instructions** : Section – 1 : Answer **any 10** questions out of 15  
Max. marks in this Section are **30** (3 marks for each right answer).
- Section – 2 : Answer **all 10** questions.  
Max. marks in this Section are **20** (2 marks for each right answer).
- Section – 3 : Attempt **any 2** out of 3 questions.  
Max. marks in this Section are **30** (15 marks for each right answer).

SECTION – 1

Answer **any 10** out of 15 :

(10×3=30)

1. What are operational objectives of an airline ?
2. Explain what do the following symbols indicate and elaborate.



3. Describe five main steps in fleet planning of an airline.
4. Explain cell model of fleet planning model.
5. What are various methods and procedures of aircraft maintenance ?
6. Describe various aircraft maintenance checks.
7. What are the advantages of manpower planning ?
8. Explain hub and spoke model.
9. Give advantages and disadvantages of hub and spoke model.

P.T.O.



10. Describe four phases of network management.
11. Describe three types of network structure.
12. Explain the following terms citing the formulae for the same.
  - a) CASM b) RASM c) Breakeven d) Passenger spill e) Recapture
13. Describe new challenges in an airline planning process.
14. What are the responsibilities of a flight despatcher ?
15. What is AOCC and what does it comprise of ?

## SECTION – 2

Answer **all** the questions.

(10×2=20)

State whether **true** or **false** :

1. An effective route plan comprises of adaptability, flexibility and complexity.
2. Ground time or turnaround time is an important issue during fleet management.
3. Aircraft check include “A” or “B” or “C” or “D”.
4. Security is a non-airport function.
5. A crew trip represents a single non stop flight.

Fill in the blanks :

6. Generally \_\_\_\_\_ airports have volatile traffic.
  - a) Primary
  - b) Secondary
7. \_\_\_\_\_ refers to decrease in production cost per unit of output with increasing output.
  - a) Economies of scale
  - b) Breakeven point
8. Many European hubs can be described as \_\_\_\_\_ hubs.
  - a) Hinterland
  - b) Omni-directional





3. Based on the following information, determine whether the Flight F1 will prefer gate 3 or gate 11.

Distance chart

Gates	To										
	1	2	3	4	5	6	7	8	9	10	
From 3	10	40	0	30	10	40	20	50	30	60	
4	40	10	30	0	40	10	50	20	60	30	
10	70	40	60	30	50	20	40	10	30	0	
11	50	80	40	70	30	60	20	50	10	40	
14	90	60	80	50	70	40	60	30	50	20	
15	70	100	60	90	50	80	40	70	30	60	
17	80	100	70	90	60	80	50	70	40	60	

Passenger connections from flights to various gates.

From Flight	To										
	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	G <sub>4</sub>	G <sub>5</sub>	G <sub>6</sub>	G <sub>7</sub>	G <sub>8</sub>	G <sub>9</sub>	G <sub>10</sub>	
F <sub>1</sub>	4	3	9	10	12	7	3	11	5	15	