

**II Semester M.B.A. in Aviation Examination, October 2011  
AIRPORT PLANNING AND DEVELOPMENT  
(July 2010 Batch) and Re-sit (January 2010 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. Briefly describe the environmental planning system.
2. Describe briefly the physical characteristics of an airport.
3. Write a short note on aerodrome beacon.
4. Explain the PAPI.
5. Write briefly on markers.
6. What are obstacles ? Discuss the two types of obstacles.
7. Explain the uses of obstacle lights through a chart.
8. State briefly the characteristics of closed runways/taxiways.
9. Explain secondary power supply which is required to supply lighting to airport ground areas.



10. State and explain the areas that need constant monitoring.
11. Write in brief about security at airports.
12. Describe briefly the need for surveillance and monitoring.
13. Explain briefly how surveillance is carried out at the perimeter and access control area.
14. Write briefly on the various surveillance facilities found at the airport for surveillance of ATC.
15. What is electronic surveillance ? Explain.

#### SECTION – 2

Answer **all** the questions :

**(10×2=20)**

State whether **True** or **False** :

1. Patrolling is done by using electronic systems.
2. Outer protective ring is protected by guarding and surveillance.
3. Perimeter fencing is also a part of airport surveillance.
4. It is unimportant to remove foreign objects from the maneuvering area.
5. Inspections at aerodromes are conducted through visual checks.

Explain in **a line** or **two** the following terms :

6. Aircraft classification number.
7. CCTV.
8. Hydroplaning.
9. Non-precision runway.
10. Stop way.



SECTION – 3

Answer **any 2** out of 3 questions :

**(15×2=30)**

1. Draw the picture of the runway indicating the below mentioned terms and explain each aspect of the runway briefly (own words).
    - Runway designators
    - Threshold
    - Touchdown zone
    - Fixed distance markers
    - Stop way
    - Shoulders
    - Taxiway
    - Centerline
  2. Describe the airport master plan.
  3. Write a note on runways and taxiways.
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