



**II Semester M.B.A. in Aviation Examination, October 2011  
(July 2010 Batch) and Re-Sit (January 2010 Batch)  
AIR TRAFFIC CONTROL**

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 is the difference between “estimated off-block time” and “estimated time of arrival” ?
2. What is the difference between “controlled airspace” and “uncontrolled airspace” ?
3. Write a short note on clearance delivery.
4. When is a change from IFR flight to VFR flight acceptable ?
5. Briefly mention the contents of position reports.
6. Can the call signs of an aircraft be changed ? If yes, by whom and when can it be reverted ?
7. What is essential traffic ?
8. Write provisions for requested change in a flight plan.
9. Define strayed and unidentified aircrafts. Explain in 2 to 3 lines each concept.
10. State the steps followed by ATS units when assisting a strayed aircraft.



11. How should ATC unit coordinate with the flight crew of the aircraft dumping fuel ?
12. What information needs to be given to a departing aircraft ?
13. What shall the aircraft prior to take off be advised of by the Aerodrome Control Tower ?
14. State the various transmitting techniques used so that transmitted speech is clear and satisfactorily received.
15. What are the different conditions of communication ?

SECTION – 2

Answer **all** the questions.

(10×2=20)

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

1. Turbo jet aircraft is the mach number approved by ATC.
2. A VFR flight need not remain in visual meteorological conditions all the time.
3. Essential traffic information does not include the cruising level.
4. Changes of SSR code should be frequently made.
5. It is important to maintain one-way communication with an aircraft.

Explain or decode the following abbreviations :

6. STARS.
7. RSVM.
8. SSR.
9. GNSS.
10. DME.

SECTION – 3

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

(15×2=30)

1. Explain the alerting services provided by aerodrome control towers.
  2. List down in detail all the standard words and phraseology used between ATC and Aircraft.
  3. Describe procedures for departing aircraft.
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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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