



MBA 035

III Semester M.B.A. in Aviation Examination, October 2011

LOAD AND TRIM

(January 2010 Batch) and Re-sit (July 2009 Batch)

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Section 1 – Answer **any 10** questions out of **15**. Max. marks in this Section are **30** (3 marks for **each** right answer).
2) Section 2 – Answer **all 10** questions. Max. marks in this Section are **20** (2 marks for **each** right answer)
3) Sections 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. An LDM is sent as shown below

QU BKKKFY Y BKKKGY Y BKKOWYY BKKKFY Y BOMKKYY

It is sent by whom to whom in BKK ? What does QU basis mean ?

2. Load planning is a 3 flight process. What are they ?
3. Where is HUM shipment normally loaded ?
4. PAD is 00/02/06 of which 2 staff members in C class are travelling 100% free, 2 are travelling at 75% free and 4 staff members are travelling 90% free. If all PADs are to be disembarked list their offloading priorities bearing in mind that 2 staff members are travelling in C Class and the remaining in Y class. All of them are “SQL”.
5. When the flight is UNDER load, what will the commander do ?
6. What happens if the speed of air below the wings is more than the speed of air above the wings ?

P.T.O.



7. How do you arrive at the load sheet basic weight ?
8. What are the three take off weights taken into account for calculating the payload ?
9. What are “SPOILERS” and is designed with what purpose in mind ?
10. Must the commander carry reserve fuel all the time or only when situation demands. Why ?
11. When the aircraft has taken off and is on a flight path, the fuel on board are _____
12. How is a STAB Trim arrived at ?
13. The elevator is used by the commander for what function.
14. Explain “MAC”
15. Explain moments.

SECTION – 2

Answer **all** the questions :

(10×2=20)

1. Load planner is also known as the _____ and is certified by _____
2. Diplomatic mail is loaded in _____ in the _____
3. What permissible limits are shown in the load sheet ?
4. Weight of pantry and Galley are shown separately in the load sheet _____
(T/F)
5. “N” is a standard code used in the LIR. What does it mean ?
6. Under load is _____ minus _____
7. In an AB aircraft, “C” zone of Pax cabin is a No scale zone. Why ?
8. The Routing is BOM MAA SIN. If you are preparing the L/S at MAA, where will you show the dead load figures BOM/SIN ? _____
9. A “Pitch” motion is _____
10. When is Ballast fuel uplifted ?

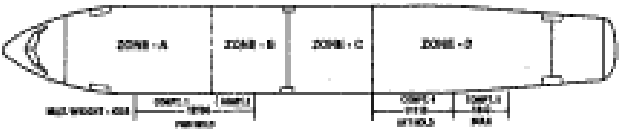
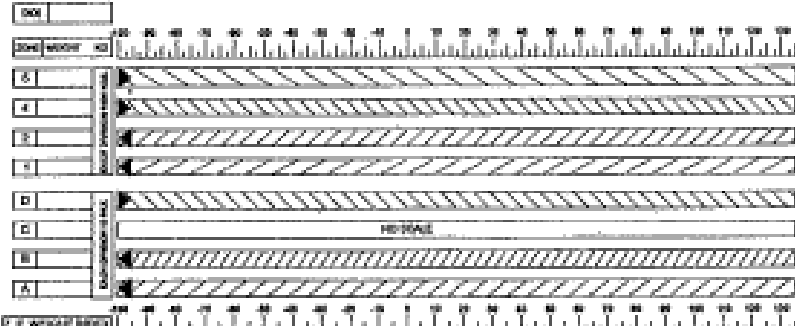


SECTION – 3

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

(15×2=30)

1.

AIRBUS A310-300		BALANCE CHART	
SECTOR:	DATE:	FLIGHT NO.:	REGISTRATION:
NOTE: MAX. CARGO HOLD WTG. ARE INCLUSIVE OF WEIGHTS OF CONTAINERS, PALETTE AND SPECIAL EQUIPMENT (EXCLUDING SPECIAL PAK).			
			
			

Start from “0” in the trim sheet and plot the graph appropriately

Z1- 3000 kilos

Z2- 5000 kilos

Z4- 5000 kilos

Z5- 1000 kilos

D zone 50 passengers

2. Routing : BOM SIN KUL

Airbus : Configuration : 20/160/C/Y

You are in SIN for this exercise

The Booked Passenger load for BOM SIN is C/Y 10/60

M/F/C/I are 40/25/5/2

The booked load BOM KUL is C/Y 10/100

M/F/C/I are 50/55/5/0

Joining load at SIN is C/Y 0/50

M/F/C/I 30/20/0/5

Calculate the total passenger and baggage load ex SIN for KUL.

3. Detail the offloading priorities normally followed by the airlines.