

- (a) Centre of gravity limits
- (b) Pressure refueling
- (c) Pneumatic / vacuum system
- (d) Safety valves
- (e) Primary control system
- (f) Artificial feel
- (g) Hydraulic fluids
- (h) Cross feed valve
- (i) Rain repellent
- (j) Emergency equipment requirements

### SECTION-B

2. Explain aircraft taxiing/towing and associated safety precautions. (5)
3. What do you mean by abnormal events? Explain for **any one** such event, how inspection is carried out after the occurrence of such an event. (2,3)
4. Write a note on 'Cabin furnishing'. (5)
5. Explain the supply systems of fuel system using a neat & labeled sketch. (5)
6. Explain normal & emergency systems for extension & retraction of landing gears. (5)

### SECTION-C

7. Explain the various sources of air supply used for air-conditioning system. Explain air-conditioning systems. Explain the distribution systems. (3,4,3)
8. Explain the hydraulic system of a typical jet transport aircraft with the help of a neat and labeled schematic diagram. (10)
9. Explain operation of a manual, hydraulic, pneumatic, electrical and fly-by-wire flight control system. (10)

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**