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B.Sc. (Hons) Aircraft Maintenance (2018 Batch) (Sem.-3)

AIRCRAFT SYSTEMS-I

Subject Code: BSCARM-301-18 M.Code: 76599

Max. Marks: 60 Time: 3 Hrs.

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- (a) Centre of gravity limits
- (b) Pressure refueling
- in Ranker.com (c) Pneumatic / vacuum system
- (d) Safety valves
- (e) Primary control system
- (f) Artificial feel
- (g) Hydraulic fluids
- (h) Cross feed valve
- (i) Rain repellant
- (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.

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