

- Q.27 Write short note on utility of emergency exits.
  - Q.28 What are the different types of fuel tanks used in aircrafts ?
  - Q.29 What are the different types of wings planforms ?
  - Q.30 How control rigging is done ?
  - Q.31 Write a short note on using Plywood in Aircraft Structure.
  - Q.32 What is fail safe and safe fail concept ?
  - Q.33 What are the types of control system used in aircrafts ?
  - Q.34 How is testing of fuel tanks done ?
  - Q.35 How are composites made ?

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Classify the different types of aircrafts with respect to different aspects with examples.

Q.37 Write in detail about the minor defects, their effect and repair methodologies.

Q.38 Explain the working of landing gear, brake system and airbrakes.

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4th Sem / Branch : Aircraft Maintenance

## **Subject:- General Airframe and Aero Modding**

Time : 3Hrs.

M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.5 Why does the landing gear retract into the wings and/or fuselage during flight ?
- To decrease drag
  - To increase airspeed
  - To decrease airspeed
  - To generate more thrust
- Q.6 Most of the transport aircraft have ?
- Dihedral wings
  - Anhedral wings
  - Swept forward wings
  - Elliptical wings
- Q.7 What is the function of trim tab control ?
- To minutely maneuver the a/c
  - Release pilot of stick force
  - To provide stability
  - All of the above
- Q.8 Most retraction systems are \_\_\_\_\_ operated.
- Thermally
  - Hydraulically
  - Mechanically
  - Electronically
- Q.9 What is Alclad ?
- Pure Aluminum coating to prevent corrosion
  - Aluminum and cadmium alloy
  - Whole surface cladded
  - None of the above
- Q.10 What is the full form of STOL ?
- Short take-off and landing
  - Straight take-off and landing
  - Swift take-off and landing
  - None of the above

## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is the direction of lift in airplane ?
- Q.12 What is the shape of spars ?
- Q.13 What do you mean pure monocoque ?
- Q.14 What is a canard ?
- Q.15 What are the different aircraft types ?
- Q.16 What type of landing gear is there on gliders ?
- Q.17 What are the benefits of using composite in an aircraft ?
- Q.18 How the brakes are applied on wheels ?
- Q.19 Where is fabric used in an aircraft structure ?
- Q.20 What is the importance of minor structural repairs in aircraft ?

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Name all the secondary control surfaces.
- Q.22 Draw a diagram of the loads acting on an aircrafts climbing at 45 degree.
- Q.23 What is stressed construction ?
- Q.24 What do you mean by aircraft component utility ?
- Q.25 Write a precautionary measure taken to avoid engine failure
- Q.26 Explain the working of flaps ?