

- Q.19 What is ISO 9000 for?
Q.20 What is the role of regulatory authority?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe the crimping method for wires?
Q.22 What is the procedure for reconditioning?
Q.23 How is crack detection done in an engine?
Q.24 Explain any one DC instrument.
Q.25 What is the control rigging? Explain.
Q.26 Describe long term storage for accessories?
Q.27 What are the basic structural components?
Q.28 What is the input in rate of climb indicator?
Q.29 How does pedal brake work?
Q.30 How is rectification of engine maintenance done?
Q.31 What is the significance of a service bulleting?
Q.32 What are the various types of instruments with air pressure?
Q.33 What is advantage of Honeycomb structure?
Q.34 What are the various soldering techniques?
Q.35 Mention the major airsafety regulations.

SECTION-D

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

- Q.36 What are various engine maintenance processes. Explain the procedures for airframe system.
Q.37 Write notes on Airspeed Indicator, gyrometer and rate of turn indicator. How all these are maintained?
Q.38 How is identification of electrical cables used in Aircraft radio installation done? What is fault free analysis? Describe.

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SECTION-A

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

- Q.1 What is the primary purpose of flight testing an aircraft?
a) To Train Pilots
b) To demonstrate the aircraft's performance and handling characteristics
c) To improve aircraft security
d) To test passenger comfort
- Q.2 What is the primary purpose of a bonded store in the context of aeronautical parts storage?
a) To store parts that are under customs control
b) To keep parts that need to be quarantined
c) To organize parts by size and weight
d) To display parts for inventory checks
- Q.3 What is a critical factor in the storage of rubber goods used in aeronautical application?
a) Storing in a dry, dark, and cool environment
b) Keeping them in airtight containers
c) Regularly exposing them to sunlight
d) Storing them with heavy metallic parts

- Q.4 What label or identification is commonly required for parts stored in bonded and quarantine stores?
- Expiry date
 - Serial number
 - Storage location code
 - Certification status and reason for quarantine
- Q.5 Which certification is often required for personnel performing maintenance on aircraft communication systems?
- Commercial Pilot's License
 - Airframe and Power plant (A&P) certificate
 - Air Traffic Controller Certificate
 - Cabin crew License
- Q.6 What does the acronym MEL stand for in the context of aircraft operations?
- Maximum Equipment List
 - Minimum Equipment List
 - Mandatory Equipment List
 - Minor Equipment List
- Q.7 For trans-oceanic flights, which equipment is crucial for ensuring communication and navigation accuracy?
- ADF (Automatic Direction Finder)
 - Hf(High Frequency) radio
 - Weather radar
 - ELT (Emergency Locator Transmitter)

- Q.8 What is the purpose of a service bulletin in aircraft maintenance ?
- To request feedback from pilots
 - To communicate mandatory maintenance actions from the manufacturer
 - To provide recommendations for optional improvements
 - To offer discount on spare parts
- Q.9 What is the primary purpose of a modification in aircraft maintenance ?
- To temporarily suspend maintenance activities
 - To enhance the aircraft's performance or capabilities
 - To issue safety warnings to operators
 - To provide routine maintenance procedures
- Q.10 The DC voltage in Air craft is generally
- 24V
 - 48V
 - 28V
 - 110V

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is a mandatory schedule?
- Q.12 What do you mean by advisory circulars?
- Q.13 Name two types of inspections.
- Q.14 What is a typical AC instrument used in aircrafts?
- Q.15 How is engine installation checked?
- Q.16 What is a shock landing?
- Q.17 What do you mean by engine preservation?
- Q.18 Name the landing gear with maximum number of wheels.