

- Q.22 What are the methods to operate flight controls?
 - Q.23 Explain speed measuring instruments?
 - Q.24 What is a bonding continuity test?
 - Q.25 Describe engine on condition maintenance?
 - Q.26 How the insulation tests are performed?
 - Q.27 What is the use of compressor bleed air?
 - Q.28 How the performance of an engine is checked?
 - Q.29 Mention various aviation safety regulations.
 - Q.30 What are the limitations of carbon composition resistors and varistors?
 - Q.31 How are rain protectors are serviced?
 - Q.32 Write a brief note on Air Conditioning system?
 - Q.33 What are the basic elements of a DC system?
 - Q.34 How is fault free analysis done?
 - Q.35 What do you mean by airworthiness and air safety?

Section-D

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

- Q.36 Explain the different types of maintenance schedules? What is the coding for electrical cables?

Q.37 Explain the procedure for long term and short-term storage of engine and accessories.

Q.38 What are the various types of flying controls? What is the task of AME after shock landing?

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SECTION-A

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

- Q.1 A Protocol for ACARS was designed by _____.
a) Boeing b) ARINC
c) FAA d) ICAO

Q.2 Which regulators body in the United States is primarily responsible for overseeing flight testing of aircraft?
a) NASA b) FAA
c) NTSB d) ICAO

Q.3 Which of the following items is most likely to be stored in a quarantine store?
a) Parts awaiting customers clearance.
b) Parts that have failed inspection or require further testing
c) Parts ready for immediate use.
d) Parts that are surplus and need disposal

Q.4 Why is it important to store aeronautical fluid in a controlled environment?
a) To prevent evaporation and contamination
b) To enhance their chemical properties

- c) To reduce their weight for easier handling
 d) To improve their colour and appearance
- Q.5** Most retraction systems are _____ operated
 a) Thermally b) Hydraulically
 c) Mechanically d) Electronically
- Q.6** What is the primary purpose of a Certificate of Flight Release in aircraft operations?
 a) To certify that the aircraft has been refuelled
 b) To confirm that the aircraft is ready and safe for flight after maintenance
 c) To document the aircraft's flight hours
 d) To authorize the pilot to fly the aircraft
- Q.7** The maintenance carried out while an airplane is parked at an airport waiting for the next takeoff is generally referred to us _____.
 a) Line maintenance b) Major Maintenance
 c) General Maintenance d) Base
- Q.8** Who is typically responsible for issuing a Certificate of Flight Release?
 a) The Aircraft manufacturer
 b) The pilot in command
 c) A certified aircraft maintenance engineer or authorized personal
 d) The airline operations manager
- Q.9** When installing radio equipment in an aircraft, what is a critical factor to consider regarding antenna placement?
 a) It should be aesthetically pleasing
 b) It should be easily accessible to the pilot
- c) It should minimize signal obstruction & Interference
 d) It should be placed near the aircraft's lights
- Q.10** Which of the following is a suitable place to perform infrared heating de-icing?
 a) Apron b) Aircraft bay
 c) Hangar d) MRO facility
- Section-B**
- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is the role of FAA in aviation?
 Q.12 What is a trail wheel?
 Q.13 What do you mean by a service letter?
 Q.14 What is the role of history record sheet?
 Q.15 How a crack is detected?
 Q.16 What do you mean by engine preservation?
 Q.17 Name two DC instruments.
 Q.18 Name two power operated controls?
 Q.19 What is the soldering material?
 Q.20 What is variastor?
- Section-C**
- Note:** Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)
- Q.21 Explain briefly various maintenance schedules.