

- Q.27 What are the different Quality System standards?
- Q.28 What is the importance of periodical inspection of instruments?
- Q.29 How is position error leak test done?
- Q.30 How does ISO9005/ISI4000/AS9100 Issue Certification work?
- Q.31 What does hydraulic failure mean? How is it identified and worked upon?
- Q.32 What are the quality system standards when it comes to manufacturing instruments?
- Q.33 How does cylinder head temperature gauge work? Explain its benefits.
- Q.34 Write short notes on two Instruments that are based on gyroscope.
- Q.35 Explain the working of manifold pressure gauge?

SECTION-D

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

- Q.36 What is the principle of thermocouple? What are the different types of thermometer used in aviation?
- Q.37 What is the principle of operation of Altimeter? Explain the constructional details.
- Q.38 Explain the Total Quality Management (TQM) as applicable to aviation industry.

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4th Sem / Aircraft Maintenance Subject : Aircraft Instruments

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Where is the alternative static port located?
- Inside the wings of the aircraft
 - Inside the rudder of the aircraft
 - Inside the engine of the aircraft
 - Inside the cabin of the aircraft
- Q.2 What is the full form of IAS?
- Implied airspeed
 - Indicated airspeed
 - Incident airspeed
 - Immediate airspeed
- Q.3 What is the difference between the pilot pressure and the static pressure called?
- Atmospheric Pressure
 - Dynamic Pressure
 - Air Pressure
 - Cabin Pressure

- Q.4 The top half of the attitude indicator is _____.
 a) Green b) Blue
 c) Brown d) Yellow
- Q.5 The compass instrument shows the aircraft's heading relative to magnetic _____.
 a) West b) North
 c) South d) East
- Q.6 The turn indicator indicates rotation about the _____.
 a) Horizontal axis b) Vertical axis
 c) Longitudinal axis d) Diagonal axis
- Q.7 The instrument which combines both the static and total pressure is _____.
 a) Dynamic probe b) Static probe
 c) Pitot static probe d) Stagnation probe
- Q.8 TAS shows airspeed in _____.
 a) Miles per hour b) Knots
 c) Kilometer per hour d) Kilometer per hour
- Q.9 When the aircraft is moving forward, air entering the Pitot tube is at a _____ pressure than the static line.
 a) Equal b) Lower
 c) Greater d) Infinite
- Q.10 Altimeter is not a part of the “Big Five” flight instruments.
 a) False b) True

SECTION-B

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

- Q.11 How does suction gauge work?
- Q.12 How does gyroscope-based instrument work?
- Q.13 How is position error calculated?
- Q.14 What is the importance of quality assurance is testing?
- Q.15 What is the principle of operation of Altimeter?
- Q.16 What is the use of Turn and Bank indicator?
- Q.17 How does suction gauge work?
- Q.18 What is the importance of content gauge?
- Q.19 How does temperature gauge work?
- Q.20 What is the principle behind VSI?

SECTION-C

Note: Short answer type questions. Attempt any Twelve question put of fifteen questions. (12x5=60)

- Q.21 How is position error leak test done?
- Q.22 what is AS9100 certification?
- Q.23 Give a few examples of electrically operated instruments.
- Q.24 How is the periodical inspection of temperature gauge done?
- Q.25 How are constructional features checks of Airspeed Indicator done?
- Q.26 How does suction gauge work?