

- Q.28 What are the different types of temperature sensors?
- Q.29 Describe contactless tachometer working?
- Q.30 How is periodical inspection of pressure gauges done?
- Q.31 How fuel flow is measured?
- Q.32 What are different types of gyroscopes?
- Q.33 What is the principal of fuel quantity indicators?
- Q.34 What does hydraulic failure mean?
- Q.35 What do you mean by TQM, how it is ensured?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What are the different types of instruments? Describe the errors in the instruments and method to fix them.
- Q.37 What is the principle of gyroscope? How it is used in aircraft instruments?
- Q.38 Explain the procedure for replacement of all aircraft instruments?

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4th Sem / Aircraft Maintenance Subject:- Aircraft Instruments

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which pressure is the measure of air speed?
- Atmospheric Pressure
 - Dynamic Pressure
 - Air Pressure
 - Cabin Pressure
- Q.2 VSI has following pressure inputs?
- Stagnation and static pressure
 - Dynamic Pressure
 - Only one Static
 - One static and one restricted static
- Q.3 In a sensitive altimeter, the sea-level reference pressure can be adjusted with a _____ knob.
- Setting
 - Calibrating
 - Adjusting
 - Pressure
- Q.4 The turn indicator is a type of _____
- Electric instruments
 - Pitot instruments
 - gyro instruments
 - Pressure Instruments
- Q.5 The needle of ASI does?
- Mathematical calculations
 - Digital calculations

- c) Mechanical calculations
 - d) Arithmetic calculations
- Q.6 Thermistor working principal is that change of temperature causes_____.
- a) Change in dimensions
 - b) Change in resistance
 - c) Change in pressure
 - d) Density
- Q.7 What is the full form of ISA?
- a) International Stationary Atmosphere
 - b) Internal Standard Atmosphere
 - c) International Standard Atmosphere
 - d) Internal Stationary Atmosphere
- Q.8 What does the attitude indicator display?
- a) Aircraft's relation to the horizon
 - b) Aircraft's relation to the ground
 - c) Aircraft's relation to the wind flow
 - d) Aircraft's relation to the atmospheric pressure
- Q.9 The altimeter is used to show the aircraft's _____
- a) Pressure Altitude
 - b) Height above the ground
 - c) Pressure outside
 - d) Airspeed
- Q.10 Gyroscope is powered by .
- a) Electricity
 - b) Pressurized Air
 - c) Electricity or Pressurized Air
 - d) Hydraulic power

SECTION-B

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

- Q.11 What are the pitot instruments?
- Q.12 What is calibrated airspeed?
- Q.13 What is the importance of indicator maintenance?
- Q.14 What does VSI measure?
- Q.15 What is Pitot Static Pressure?
- Q.16 How many types of RPM indicators are used?
- Q.17 Name two electrically operated instruments.
- Q.18 What is the use of thermocouple ?
- Q.19 What is artificial horizon?
- Q.20 What is TQM?

SECTION-C

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

- Q.21 Describe working of Altimeter.
- Q.22 How lead test is done on an airspeed indicator?
- Q.23 How is position error corrected?
- Q.24 Explain the input of rate of climb indicator?
- Q.25 What are the different setting types of Altimeter?
- Q.26 What is the installation procedure of VSI?
- Q.27 What is the procedure of replacement of aircraft instruments?