

- 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?
 a) Atmospheric Pressure
 b) Dynamic Pressure
 c) Air Pressure
 d) Cabin Pressure
- Q.2 VSI has following pressure inputs?
 a) Stagnation and static pressure
 b) Dynamic Pressure
 c) Only one Static
 d) One static and one restricted static
- Q.3 In a sensitive altimeter, the sea-level reference pressure can be adjusted with a _____ knob.
 a) Setting b) Calibrating
 c) Adjusting d) Pressure
- Q.4 The turn indicator is a type of _____
 a) Electric instruments b) Pitot instruments
 c) gyro instruments d) Pressure Instruments
- Q.5 The needle of ASI does?
 a) Mathematical calculations
 b) 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 shows the aircraft's _____.
a) Pressure Altitude
b) Height above the ground
c) Pressure outside
d) Airspeed
- Q.10 Gyroscope is power 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?