

- Q.5 Afterburner is used to _____.
 a) Increase thrust of engine
 b) Increase fuel efficiency
 c) Increase lift produced by tail
 d) Reduce fuel consumption
- Q.6 Fuel system includes _____.
 a) Fuel tanks, fuel lines, fuel pump etc.
 b) Elevator
 c) Rudder
 d) High lift device
- Q.7 The diameter of piston is called _____.
 a) Piston b) Bore
 c) Stroke d) None of the mentioned
- Q.8 How much amount of fuel must be measured out in a fuel injection system?
 a) Very High b) Very small
 c) High d) Medium
- Q.9 Which among the following is provided on the piston in a two stroke engine to increase the compression ratio?
 a) Flat spot b) Deflector
 c) Damper d) Nozzle
- Q.10 The clearance volume is the _____ volume formed in cylinder when piston is at TDC.
 a) Minimum b) Maximum
 c) Average d) None of the mentioned

SECTION-B

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

- Q.11 How is the efficiency of piston engine compared to jet engines?
- Q.12 Where are fuel flow indicators used?
- Q.13 Where are feathering propellers used?
- Q.14 How are the faults identified in a typical engine system?
- Q.15 Where are tachometers used?
- Q.16 What is the use of carburetors?
- Q.17 Where are pressure gauges used in instruments?
- Q.18 How does magnetos work?
- Q.19 What is the use of engine starters?
- Q.20 What is the use of fault analysis?

SECTION-C

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

- Q.21 How does a propeller based Aircraft work?
- Q.22 What are the different types of aviation fuel?
- Q.23 Denote the different functioning parts of a propeller with a diagram.
- Q.24 What are electrical resistance thermometers?
- Q.25 What are the constructional features of superchargers?
- Q.26 Explain the working of exhaust and cooling system of engine.
- Q.27 What are the common sources of contamination? How are they eradicated?