Q.23 Describe the working of lubrication system.
Q.24 Explain the effect of sound pollution due to aircraft on humans.
Q.25 Where and how thrust reversal is used?
Q.26 Explain the role of an after burner.
Q.27 How is dressing of Jet engine is done?
Q.28 Explain the process of engine rigging?
Q.29 How the hot section Inspection is done?
Q.30 Explain the working of fuel system for jet engine.
Q.31 Why the inspection of accessories gear done?
Q.32 What is the importance of ground running?
Q.33 How the functional test of fuel system done?
Q.34 Explain the various maintenance checks done?
Q.35 Describe PIGA engine features.

SECTION-D

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

Q.36 Explain in Air and fuel system of P & W PIGA Series Engine with the help of diagrams.
Q.37 Write a note on Engine rigging, engine controls and engine dressing procedures.
Q.38 Explain in detail the maintenance, and operation of gas turbine engine.

No. of Printed Pages : 4 187762/147762
Roll No. .....

6th Sem / AME
Subject:- Turbo Propeller and Turbo Jet Engine - II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which regulatory body typically establishes guidelines and requirements for aircraft engine maintenance?
a) International Air Transport Association(IATA)
b) Federal Aviation administration (FAA)
c) Civil Aviation Authority (CAA)
d) National Transportation Safety Board (NTSB)

Q.2 What is the purpose of performing engine borescope inspections?
a) To clean the engine's intake filters
b) To test the engine's ignition system
c) To inspect the internal components of the engine for signs of damage or wear
d) To adjust the engine's fuel injection system

Q.3 Which of the following is the most important property of the lubricant?
a) Density

b) Thermal conductivity
c) Viscosity
d) Melting point

Q.4 A turboprop is very efficient when operated at cruise speed of _____
a) 200-400 mph b) 20-40 mph
c) 10-100 mph d) 600-800 mph

Q.5 Which of the following is the most extensive maintenance check to be performed on an aircraft?
a) A-Check b) D-Check
c) B-Check d) C-Check

Q.6 Greases perform better than oils under which of the following conditions?
a) cleanliness or avoidance of splash
b) minimum attention
c) a seal against external contaminants
d) all of the mentioned

Q.7 _____ compressors are used in turbojets.
a) Axial b) Radial
c) Axial & Radial d) None of the mentioned

Q.8 What is the full form of CAMP?
a) Continuous Air mileage Program
b) Continuous Air Maintenance Program
c) Continuous Airworthiness Maintenance Program
d) Continuous Airworthiness Mileage Program

Q.9 Jet engines have _____ shafts.
a) single b) multiple
c) single or multiple d) none of the mentioned

Q.10 Where do the heavier checks take place?
a) In flight b) MRO base
c) Manufacturing sites d) Airport Hangar

SECTION-B

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

Q.11 What is the difference between jet and rocket engines?

Q.12 What is the purpose of ground running?

Q.13 Give a use of Thrust reversal system.

Q.14 What are the risks involved with combustion chamber inspection?

Q.15 What is the use of rigging?

Q.16 What type of propellers are used for PIGA engine?

Q.17 What do you mean by engine trimming?

Q.18 How does turbo prop differ from Turbo jet in terms of performance?

Q.19 Name two turboprop engine airplanes in use?

Q.20 Where are lubricants used in an engine?

SECTION-C

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

Q.21 Explain the term propulsive efficiency?

Q.22 Explain the different types of Thrust Augmentation Systems.