



B.E DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

AERONAUTICAL ENGINEERING

AER122: Aircraft Maintenance Repair and Overhaul

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The filler metal has melting point more than _____ in the process of brazing.
 - a) 200°F
 - b) 400°F
 - c) 600°F
 - d) 800°F
2. Number of fasteners required per Lap joint (Tr) will be calculated using
 - a) P_t/P_s
 - b) P_t/P_r
 - c) P_b/P_s
 - d) P_b/P_r
3. _____ is used to remove acrylic-based paints from Plexiglass
 - a) Cyclohexanone
 - b) Sandblasting
 - c) Triethylene Soap
 - d) Aliphatic Naphtha
4. Fiberglass material is manufactured in _____ fiber for structural components.
 - a) S-glass
 - b) E-glass
 - c) F-glass
 - d) C-glass
5. The direction of helicopter is controlled by _____
 - a) Anti-slip rotor
 - b) Cyclic rotor
 - c) Torque rotor
 - d) Anti-torque rotor
6. In control surface rigging _____ is used to control the cable tension
 - a) Turn-rod
 - b) Turn-buckle
 - c) Tensiometer
 - d) Cable-buckle
7. _____ type of flexible hoses are used in aircraft hydraulic systems
 - a) Teflon fluoro-carbon
 - b) Tetra fluoro-carbon
 - c) Tenin fluoro-carbon
 - d) Texlon fluoro-carbon

23. a) (i) Explain the procedure for jacking of complete aircraft (7)
(ii) Explain the procedure for control surfaces balancing. (7)

(OR)

- b) List and explain in detail about the methods available for tracking and balancing of Helicopter main rotor.

24. a) Explain in detail about inspection and maintenance procedure of aircraft landing gear systems.

(OR)

- b) (i) Write short notes about the inspection and maintenance of cabin pressurization system. (7)

- (ii) Write short notes about the inspection and maintenance of water and waste system. (7)

25. a) Write in detail about the general hazardous communication standards employed in aviation industry.

(OR)

- b) Explain in detail about the different format of troubleshooting charts available in aviation industry.
