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Seventh Semester B.E. Degree Examination, June/July 2019 Aircraft Maintenance, Repair and Overhaul

Time: 3 hrs.

Note: Answer any FIVE full questions, se

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

- 1 a. Explain the equipments used in oxyacetelyne welding.
 b. List the characteristics to ensure the quality of weld.
 (05 Marks)
 - c. Write difference between soldering and Brazing. (05 Marks)
- 2 a. Determine the number of rivets required per lap joint for a repair. (06 Marks)
 - b. What are the classification of sheet metal damage? (04 Marks)
 - c. Write a note on different types of NDT methods in aircraft industry. (10 Marks)
- 3 a. Explain Maintenance and repair of plastic materials. (10 Marks)
 - b. List the types of plastics used in aircraft. Write short note on forming plastics and bonding plastics.

 (10 Marks)
- 4 a. Give the purpose of autoclares in composite manufacturing along their types. (10 Marks)
 - b. Explain the procedure of aircraft leading edge repair for composite structure with neat sketch. (10 Marks)

PART - B

- 5 a. What is aircraft rigging? With a neat sketch explain control surface installation and rigging process. (08 Marks)
 - b. Explain in detail balancing of helicopter main rotor. (12 Marks)
- 6 a. Explain the procedure for inspection of retractable landing gear in fixed wing aircraft.
 - b What are the different flight instruments used in aircraft? Briefly explain. (10 Marks)
- 7 a. Explain with neat sketch windshield wiper system of an aircraft. (05 Marks)
 - b. With a neat sketch, explain take off warning indicator. (10 Marks)
 - c. Explain inspection and servicing of fire protection. (05 Marks)
- 8 a. Define trouble shooting process. List the steps in trouble shooting process with chart.
 - b. Explain theory behind hazardous material storage handling in aircraft. (10 Marks)

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