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10AE753

Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018

**Aircraft Maintenance Repair & Overhaul**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. Explain with necessary diagrams, oxyacetylene welding and its equipments. (10 Marks)  
b. Mention the characteristics to ensure quality welds? Explain soldering and brazing. (10 Marks)
- 2 a. Explain sheet metal inspection process. (10 Marks)  
b. What are the classifications of sheet metal damage? Explain Rivet Repair Design. (10 Marks)
- 3 a. What are the types of clear plastics? Explain installation maintenance and repair of plastic materials. (10 Marks)  
b. Explain with neat diagram repair of crack and repair of holes. (10 Marks)
- 4 Explain the inspection and repair of composite components. (20 Marks)

**PART – B**

- 5 Explain Helicopter flight control and tracking and balancing of main rotor. (20 Marks)
- 6 a. Explain with diagram the hydraulic system for aircraft. (06 Marks)  
b. Explain inspection and maintenance of landing gear system. (14 Marks)
- 7 a. What do you mean by Auxillary systems? Explain requirements for overheat and fire protection system. (10 Marks)  
b. Explain Ice protection system of aircrafts. (10 Marks)
- 8 Explain in detail the types of Hazardous materials, their storage and handlings. (20 Marks)

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1. On completing your answers, carefully draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.