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Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
Aircraft Maintenance Repair and Overhaul

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1
 - a. With neat diagram explain O₂ cylinder valve. (07 Marks)
 - b. Describe good quality for completed weld characteristics. (05 Marks)
 - c. Name the two principle types of welding torches and explain with neat diagram. (08 Marks)

- 2
 - a. Derive expression for N_r for 3D and 4D spacing. (10 Marks)
 - b. Describe riveting principles for stringers. (06 Marks)
 - c. What is the philosophy of NDI? (04 Marks)

- 3
 - a. Describe the technique for clearing plastic surface. (06 Marks)
 - b. What is crazing? (03 Marks)
 - c. How is plug fitted to hole? (05 Marks)
 - d. Describe the characteristics of plastic. (06 Marks)

- 4
 - a. Explain water removal using vacuum bag procedure. (10 Marks)
 - b. Describe the basic principle of thermography. (05 Marks)
 - c. Write short note on :
 - i) Audible sonic testing
 - ii) Phased array inspection. (05 Marks)

PART – B

- 5
 - a. Describe the items required for analyzing the operation of main rotor. (07 Marks)
 - b. Explain how the balance of control surface accomplished. (07 Marks)
 - c. Describe the function of vibrancy Track. (06 Marks)

- 6
 - a. Explain with detail diagram of wheel for in and chamber check. (10 Marks)
 - b. Illustrate the passenger water system in Airbus 330. (10 Marks)

- 7
 - a. Describe the operation of overheat of fire sensors. (06 Marks)
 - b. With neat sketch, explain APU control and indicating panel. (10 Marks)
 - c. What methods, other than wipers, may be used to remove rain from a wind shield? (04 Marks)

- 8
 - a. With example, explain troubleshooting chart. (12 Marks)
 - b. Describe Hazardous materials storage and handling. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily 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.