

CBCS SCHEME

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BAE306C

Third Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Aircraft Maintenance, Repair and Overhaul

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Describe about the equipments used in welding shop and mention the type of welding used in Hangar maintenance.	10	L2	CO2
	b.	How do you ensure the quality welding? Discuss the weld repair for exhaust parts.	10	L3	CO2
OR					
Q.2	a.	Define Margin of safety. Explain in detail about sheet metal repair.	10	L1	CO2
	b.	What is the philosophy of non-destructive testing? Describe the basics of fluorescent penetrant inspection.	10	L2	CO2
Module – 2					
Q.3	a.	What is thermosetting plastic? Explain the procedure for maintenance and repair of plastic components in aircraft.	10	L2	CO2
	b.	How is a hole in a plastic wind shield repaired? What is the effect of annealing a plastic?	10	L3	CO2
OR					
Q.4	a.	How do you characterize the strength of composite materials? Explain about ultrasonic inspection method.	10	L3	CO2
	b.	Describe the repair steps for a bolted repair of a composite structure.	10	L2	CO2
Module – 3					
Q.5	a.	Describe the step by step procedure for Jacking the Cessna skyhawk aircraft.	10	L2	CO3
	b.	Describe the step by step procedure for Rigging the Cessna skyhawk aircraft.	10	L2	CO2
OR					
Q.6	a.	Explain the service and inspection of landing gear systems in A380 aircraft.	10	L2	CO3
	b.	Explain the service and inspection of air conditioning systems in Boeing 777 airplane.	10	L2	CO3
Module – 4					
Q.7	a.	Explain in detail about Rain Removal System. What is the purpose of converter in a windshield wiper system?	10	L2	CO2
	b.	Explain in detail about APU operation. What is the purpose of Take off warning system?	10	L2	CO2
OR					
Q.8	a.	List the steps in troubleshooting process. What is the major weakness of troubleshooting charts?	10	L2	CO2
	b.	Explain about OSHA's Hazardous communication standards.	10	L2	CO2
Module – 5					
Q.9	a.	Describe about the documentation for maintenance.	10	L2	CO1
	b.	Describe the ATA format for maintenance manuals.	10	L2	CO1
OR					
Q.10	a.	With a sample, explain the Type certificate.	10	L2	CO1
	b.	With a sample, explain the airworthiness certificate.	10	L2	CO1
