Reg. No.:						

Question Paper Code: 1017321

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024 Seventh Semester Aeronautical Engineering U20AE715 – AIRWORTHINESS AND FLIGHT SAFETY (Regulation 2020)

Time: Three Hours	Maximum: 100 M	/Iarks
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Answer ALL questions

PART - A (10 x 2 = 20 Marks)

- 1. What are the requirements for maintaining an aircraft in an airworthy condition.
- 2. Define "On Condition" maintenance.
- 3. What is MEL?
- 4. Define cockpit checklist.
- 5. What are "alert values" in terms of aircraft maintenance.
- 6. What is QC manual?
- 7. What is a CAR 145 organization?
- 8. Define TBO.
- 9. As per CAR series "T", what is meant by series aircraft?
- 10. How do we specify "In flight Shut down"?

11. (a)	Outline the requirements for issue of Type Certificate for a new design aircra	ft. (16)				
(OR)						
(b)	Explain the Quality Control requirements of an Approved Organization.	(16)				
12. (a)	Explain the use and approval of MEL.	(16)				
(OR)						
(b)	Illustrate the scope and use of cockpit and emergency checklist.	(16)				
13. (a)	Explain the reliability program for Scheduled Public Air Transport Operator.	(16)				
(OR)						
(b)	What are the primary maintenance processes? Also explain how the processproved by Regional Airworthiness Office of DGCA.	ess is (16)				
14. (a)	Explain the different categories of Approved Organization.	(16)				
(OR)						
(b)	Summarize and personnel requirements for an Approved Organization?	(16)				
15. (a)	Outline the circumstances requiring Flight Testing of an aircraft.	(16)				
	(OR)					
(b)	Explain the requirements and procedure for Test flight of an aircraft.	(16)				

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