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	Reg. No. :	and the second
6	Question Paper Code: 50078	
B.E./B	3.Tech. DEGREE EXAMINATIONS, APRIL/MA	AY 2023.
	Fourth Semester	
	Aeronautical Engineering	
AE	8402 – AIRCRAFT SYSTEMS AND INSTRUM	ENTS
	(Regulations 2017)	
Time: Three hour	rs Ma	aximum: 100 marks
	Answer ALL questions.	
	PART A — $(10 \times 2 = 20 \text{ marks})$	
1. What are th	e basic elements of aircraft systems?	
3. What are the4. Explain the		m
	jet engine work?	Maria Company
	difference between fire alarm and smoke detec	ntor?
	n air cycle system works?	
	gerant is used in aircraft? aircraft gyroscope?	
	n air speed indicator works?	
10. How does a	PART B — (5 × 13 = 65 marks)	
11. (a) (i)	What is the pneumatic system of an aircraft?	aft and explain its
(ii)	How does aircraft landing gear work?	
	Or	
(b) (i)	Write a short note on small aircraft retraction	systems.
(ii)	How does a hydraulic retractable landing gear	work?

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