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	Question Paper Code: 50090
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Sixth Semester
	Aeronautical Engineering
	AE 8605 — EXPERIMENTAL STRESS ANALYSIS
	(Common to Aerospace Engineering)
	(Regulations 2017)
Time : Thre	
Time . Time	Answer ALL questions.
	PART A — (10 × 2 = 20 marks)
2. List the3. What	e: Accuracy and strain sensitivity. he difference between contact and non-contact extensometer. are the materials used for strain gauges?
	is meant by Rosette analysis?
	is photo elastic effect?
	the advantages of three dimensional photo elasticity. is Moire effect?
	is rotational mismatch fringe?
	is magnetic particle inspection?
	the limitations of non-destructive testing techniques.
	PART B — $(5 \times 13 = 65 \text{ marks})$
	What are the different types of extensometer? Explain the working principle of Optical extensometer.
	Or
(b)	With a neat sketch, explain the working of Acoustical extensometer.

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