

M.E. Second Semester (Civil (Structural Engineering)) (New - CGS)
13097 : Elective : Experimental Stress Analysis : 2 SFSE 5

P. Pages : 1

Time : Four Hours



AU - 3455

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer five question from Section A and five question from Section B.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Diagrams should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION – A

- | | | |
|----|--|---|
| 1. | Explain stress analysis of a field using equilibrium equations. | 8 |
| 2. | Explain in detail compensator and compensation techniques. | 8 |
| 3. | Explain in detail working of plane polariscope. | 8 |
| 4. | State the law of 'stress optics' and explain it with 2D example. | 8 |
| 5. | Explain stress freezing, creep and stage curing methods. | 8 |
| 6. | Explain Isoclinics in detail. | 8 |

SECTION – B

- | | | |
|-----|---|---|
| 7. | State the desired characteristics for any ideal strain gauge. | 8 |
| 8. | Explain in detail mechanical strain gauges. | 8 |
| 9. | Explain principle of model similitude. | 8 |
| 10. | Explain in detail Brittle coating method. | 8 |
| 11. | Explain in detail single circuit strain circuit. | 8 |
| 12. | Explain in detail moire fringe method. | 8 |

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