



8. List the pressure measuring electrical transducers.
9. What are the common causes of distress in RCC structures?
10. What is grating? What is the pitch of a grating in Moire fringe methods?

PART - C (5 x 16 = 80 Marks)

11. (a) Discuss briefly the following: limitations of optical gauges, proving rings, principles of photo elasticity and calibration of testing machines. (16)

Or

- (b) Briefly discuss about the calibration of testing machines. (16)

12. (a) Explain how LVDT's are constructed, its output voltage characteristics and how null voltage of LVDT's can be improved. (16)

Or

- (b) Explain the working procedure of cathode ray oscilloscope with a neat sketch. Also mention its applications. (16)

13. (a) Explain the construction of a wind tunnel with neat sketch and how it is used in structural analysis. (16)

Or

- (b) (i) What are the applications of pressure transducer? (8)
- (ii) Explain direct and indirect method of model analysis. (8)

14. (a) Brief the controlled blasting, corrosion of reinforcement in concrete. (16)

Or

- (b) What are the factors which lead to corrosion of reinforcement in concrete? Also state the remedial measures to be adopted. (16)

15. (a) Write notes on rebound hammer, laser for structural testing. (16)

Or

- (b) Explain the principle and working of ground penetration radar. (16)
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