

**B 2268**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Third Semester

Information Technology

IF 243 — DISPLAY SYSTEMS ENGINEERING

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the sources of illumination?
2. What are the characteristics of video system?
3. What is high definition display? List its application.
4. List photometry quantities?
5. Define Visual acuity and contrast.
6. What are the applications of zero pattern signals?
7. List the characteristics of video tape?
8. What are the elements of CRT?
9. List the types of Deflection systems in CRT?
10. What are the components of Reprographic System?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the function of Camera. (8)
- (ii) What is video colorimetry. Explain. (8)

Or

- (b) Explain the working of a TV System?

12. (a) Explain any four colour models.

Or

(b) (i) Explain the working of following display devices. Liquid Crystal, Plasma device, Alpha Numeric Display.

(ii) Compare the performance above display devices in terms of cost, application, power etc.

13. (a) How will you measure the display parameters?

Or

(b) Explain the working of surround sound system.

14. (a) Discuss DVD Technology.

Or

(b) How printers are different from plotters? Explain the working of a printer.

15. (a) Describe color CRT display devices.

Or

(b) Discuss the fundamentals of Projection System.

Time : 5

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8. V

9. V

10. V

11. V