

**B.TECH. DEGREE EXAMINATION, MAY 2014****Eighth Semester**

Branch : Electronics and Communication Engineering/Applied Electronics and Instrumentation Engineering/Electronics and Instrumentation Engineering/Computer Science and Engineering

MULTIMEDIA SYSTEMS (Elective III) (LASR)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain Multimedia.
2. List the various digital Audio file formats.
3. Differentiate between text and hyper-text.
4. List the various digital Image file formats.
5. Explain how compact disc family has revolutionized multimedia data storage.
6. How digital video interactive is achieved ?
7. Explain the constraints on multimedia programming.
8. Write a note on database integration.
9. Explain full motion Digital video.
10. Explain how video conferencing is done.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Classify the Multimedia authoring tools and discuss each *one* in detail.

Or

12. Analyze video based on its domain, *i.e.*, analog and digital. Use proper sketches.
13. Describe JPEG image compression scheme with the help of neat schematic diagrams.

Or

14. Describe wavelet based Image compression with the help of suitable diagrams.

Turn over

15. Based on a comparison table of different storage devices, explain their merits and demerits. Also explain their storage capacity and speed.

Or

16. Explain multimedia PC and Microsoft Multimedia extensions.
17. Explain media classes and format classes in multimedia programming.

Or

18. Explain about multimedia programming with the help of neat schematic diagrams.
19. What is a Multimedia Network ? What are the various layers in it and discuss their functions ?

Or

20. Explain the different video capturing techniques with the help of neat schematic diagrams.

(5 × 12 = 60 marks)

