G 1276 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

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

MULTIMEDIA SYSTEMS—(Elective III) [LASR]

(Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. What are the constituent media of Multimedia ?
2. Explain the digitization of audio.
3. How a monochrome image is represented in a computer ?
4. What are the compressed and uncompressed image file formats ?
5. Write a note on optical storage.
6. What is Quick Time ? Explain.
7. Write a note on database integration.
8. Explain the constraints on multimedia programming.
9. What is meant by realistic image synthesis ?
10. Describe different video capturing techniques.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each question carries 12 *marks.*

11. Explain audio digitization process. With an example, bring out the file size dependencies for digitized audio.

Or

12. Analyze digital video based on the storage aspects. Use proper sketches.

Turn over

13. With the help of neat diagrams, explain how a colour image is represented in a computer.

Or

14. Describe JPEG image compression technique with the help of suitable diagrams.

15. Explain different storage technologies. Differentiate them in terms of their storage capacity a speed.

Or

16. With the help of diagrams, explain how digital video interactive is achieved.

17. Explain media classes and format classes in multimedia programming.

Or

18. Explain the issues related with multimedia programming.

19. With the help of a suitable diagram, explain the technological background for virtual reality.

Or

20. **Write notes on :**

(a) Multimedia networks.

(b) Full motion digital video.

(6 marks)

[5 × 12 = 60 marks]