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Roll No. :

C033533(033)

**B. Tech. (Fifth Semester) Examination,
Nov.-Dec. 2021**

AICTE (New Scheme)

(Information Technology Engg. Branch)

MULTIMEDIA SYSTEMS

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Part (a) of each question is compulsory and carrying 4 marks each. Attempt any two parts from (b), (c) and (d) of each questions & carries 8 marks each.

Unit-I

1. (a) Define Multimedia?
(b) Describe traditional data stream characteristics.

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- (c) What are the software and hardware requirement of multimedia.
- (d) Write and explain some application of multimedia.

Unit-II

- 2. (a) Write different components of multimedia.
- (b) Define the term MIDI. Explain two different components of MIDI interface.
- (c) Define the term image and discuss image processing.
- (d) What do you mean by animation and explain about computer based animation.

Unit-III

- 3. (a) Briefly explain need of compression.
- (b) Explain JPEG compression.
- (c) Explain Static Huffman encoding and dynamic Huffman coding.
- (d) Write short notes on :
 - (i) Entropy
 - (ii) Hybrid coding

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- (iii) Statistical coding techniques.

Unit-IV

- 4. (a) What do you mean by virtual reality?
- (b) Explain Teleoperation & augmented reality system.
- (c) Explain time critical rendering.
- (d) What do you mean by VRML programming? Explain it.

Unit-V

- 5. (a) What do you mean by augmented reality?
- (b) Write the difference between virtual reality and augmented reality.
- (c) Write down the challenges with augmented reality.
- (d) Explain mobile augment reality.