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Roll No. ....

Total No. of Pages : 2

Total No. of Questions : 09 B.Tech. (IT) (Sem.-7/8)

# MULTIMEDIA AND APPLICATIONS

Subject Code : IT-406 Paper ID : [A0532]

Time : 3 Hrs.

Max. Marks : 60

## **INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from SECTION-C.

#### SECTION-A

 $(10 \times 2 = 20 \text{ Marks})$ 

- l. Write short notes on :
  - (a) What is sampling and quantization?
  - (b) What is phoneme? Explain its uses.
  - (c) Distinguish between multimedia and hypermedia systems.
  - (d) Explain the compression technique used in multimedia.
  - (e) Suggest any five applications of multimedia other than application in the field of entertainment and education.
  - (f) Compare lossy and lossless compression.
  - (g) What do you mean by visually coupled systems?
  - (h) Explain how media streaming protocol streams audio and video over the internet.
  - (i) What do you mean by desktop virtual reality ?
  - (j) What is DVI technology ?

## **SECTION-B** $(4 \times 5 = 20 \text{ Marks})$

2. What are the various limitations of workstation operating systems for multimedia applications?

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- 3. Discuss the hardware requirements of a multimedia computer.
- 4. How analog sound signal is converted to digital sound signal? Explain.
- 5. Explain the role of multimedia in entertainment and business.
- 6. What are the various multimedia fie system requirements?

# **SECTION-C** $(2 \times 10 = 20 \text{ Marks})$

- 7. What do you mean by multimedia? Explain the desirable features of a multimedia system. Also explain the various components of a multimedia system.
- 8. Write a note on digital video compression. Also explain MPEG motion video compression. How is it different fro JPEG?
- 9. Write a note on the following :
  - (a) Intelligent Multimedia Systems
  - (b) Virtual Reality