

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (IT) (Sem.-7th & 8th)
MULTIMEDIA AND APPLICATIONS (ELECTIVE-II)
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 × 2 = 20 Marks)

1. Write short notes on :

- (a) On what criteria you should emphasize while selecting a multimedia computer system?
- (b) Multimedia is not just hardware but also software'. Comment on the above statement.
- (c) What do you mean by multimedia authoring tools? Write the name of any two.
- (d) Explain the significance of word 'Intelligent' in the term 'Intelligent Virtual Reality Software Systems'.
- (e) What do you mean by virtual reality environment display?
- (f) Explain the various services provided by multimedia systems.
- (g) What is timbered media representation?
- (h) What are the various reasons for sound attenuation during its transmission?
- (i) What is the role of input devices in multimedia ?
- (j) What is streaming audio?

SECTION-B (4 × 5 = 20 Marks)

2. What do you mean by speech recognition? Explain the acoustic and language model for speech recognition.
3. Explain the multimedia architecture for standalone and networked systems.
4. Write a note on distributed virtual environment system.
5. Explain the architecture of a TTS (Text to Speech) system.
6. What is the use of intelligent multimedia systems?

SECTION-C (2 × 10 = 20 Marks)

7. Explain the use of multimedia in various fields such as medical, manufacturing, business and education etc.
8. (a) Explain the various Operating System Issues for continuous media.
(b) What are different data models for M/M and hypermedia information?
9. What do you mean by Image Compression ? Explain in detail JPEG image compression standard.