

Roll No.

24166

**B. Tech 4th Semester Information
Technology Examination – May, 2011**

MULTIMEDIA TECHNOLOGIES

Paper : IT-204-F

Time : Three hours]

[Maximum Marks :100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions. Questions **No.1** is *compulsory* and attempt only *one* question from each of the *four* Sections.

1. Write short notes on:

5×4=20

- (a) Morphing
- (b) Shading
- (c) Vector drawing
- (d) Need for compression

SECTION - A

2. (a) What are MM systems ? Also explain their characteristics. **10**

(b) Explain ATM in detail. **10**

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3. (a) Explain various types of MM Authoring systems. 10
(b) What is aliasing. Write the techniques used to remove aliasing. 10

SECTION- B

4. Explain the process of JPEG in detail. 20
5. (a) What are bitmap images ? What are the advantages and disadvantages of bitmaps over vector drawn images ? 10
(B) What is color palette ? What are the problems in color palette ? 10

SECTION- C

6. (a) Explain the various methods of encoding the analog signal. 10
(b) Describe the process of transmission of digital sound and what problems may occur during transmission ? 10
7. Explain in detail the process of speech recognition and generation. 20

SECTION- D

8. (a) Explain application of VR in various fields. 10
(b) What is Desktop virtual reality ? 10
9. (a) Explain virtual Reality operating system. 10
(b) Explain Intelligent Multimedia systems. 10