

Roll No.

24166/24268

B. Tech. 5th Sem.

(Computer Science & Engg.) VIII

Examination – December, 2013

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 complain in this regard, will be entertained after examination.

Note : The students have to attempt *first* common question, which is *compulsory*, and *one* question from each of the *four* sections. Thus students will have to attempt 5 questions out of 9 questions.

1. (a) Define morphing. 8 × 2.5
- (b) Differentiate between CD-ROM and CD-R/W
- (c) Differentiate between lossy and lossless compression.
- (d) Differentiate between BMP and PNG image format.

- (e) What is sub-band coding ?
- (f) Mention some advantages of audio compression ?
- (g) Mention some applications of VR.
- (h) What is the role of authoring tools in multimedia.

SECTION – A

- 2. (a) Define Multimedia. Give classification of multimedia. Discuss various application of multimedia. 15
- (b) Explain Animation with its usage. 5
- 3. (a) Define anti aliasing. What is the use of anti aliasing filter ? 10
- (b) Explain ADSL technology with diagram. 10

SECTION – B

- 4. What do you mean by JPEG ? Give its objective, architecture and performance. 20
- 5. Write notes on:
 - (a) 3D drawing and rendering 10
 - (b) Colour palettes 10

SECTION – C

6. Explain architecture of MPEG with different levels of hierarchy. 20
7. (a) What is stereophonic and quadra-phonetic signal processing? Explain. 10
- (b) Explain digital representation of sound with various encoding techniques. 10

SECTION – D

8. (a) Explain intelligent Multimedia system. 10
- (b) Explain orientation tracking. 10
9. Write notes on :
- (a) desktop virtual reality, 10
- (b) VR operating system. 10
-