

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.

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| 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-phonic 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
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