Roll No. ....

2118

B. E. (4th Semester) (I. T.)
Examination – December, 2011

MULTIMEDIA TECHNOLOGIES

Paper : IT-204-E

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 any *five* questions.

1. (a) What is media and multimedia ? Also discuss a framework for multimedia systems.   10

   (b) Briefly explain how a web page is communicated on to your PC, using HTML.   10

2. (a) Explain GIF and TIFF file formats for images.   10

   (b) What is image resolution ? How does resolution affect image quality ?   10

3. Discuss JPEG standard for image compression with its objectives, architecture and performance.   20

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4. (a) List different parts of MPEG 1 and MPEG 2. 10

   (b) What are colour palettes ? Discuss in references to 3D drawing. 10

5. What is virtual reality ? Explain its areas of application. What are intelligent VR software systems ? Explain VR operating system. 20

6. (a) How do we evaluate a compression system ? Discuss time based media representation. 10

   (b) Explain animation with its usage and technique. 10

7. (a) How lossy compression differ from lossless compression ? 10

   (b) What is anti-aliasing ? When do we use it ? 10

8. Write short notes on any *four* : 20

   (i) Desktop Virtual Reality,

   (ii) Morphing,

   (iii) Stereophonic and Quadraphonic Signals,

   (iv) BMP,

   (v) ATM and ADSL.