Bachelor of Science (B.Sc.) IT
Semester–I (CBS) Examination
MULTIMEDIA APPLICATION DEVELOPMENT
Paper—V

Time—Three Hours] [Maximum Marks—50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

.

EITHER

1. (a) Explain how colours are represented in images and videos. 5

(b) What data types are used to represent graphics ? Explain with example. 5

OR

(c) What file formats are used to store the text, images and graphics ? Explain by giving the example of each. 5

(d) What is multimedia software ? Give the different components used in multimedia system. 5

EITHER

2. (a) What are the different types of signals used in anolog-videos and digital videos ? Explain. 5

   (b) Explain different factors that define the quality of digitized video. 5

   OR

   (c) Discuss the video compression. 5

   (d) For what purpose is Musical Instrument Digital Interface (MIDI) used ? Give specification of MIDI. 5

EITHER

3. (a) What are the different object components used in Actionscript2.0 ? Explain any two. 5

   (b) What is authorization of Actionscript ? Explain. 5

   OR

   (c) How inheritace is performed in the Actionscript ? Explain with example. 5

   (d) What data types are available in Actionscript ? How are they checked ? 5

EITHER

4. (a) What is Wavelet-Based Coding ? Explain. 5

   (b) Give the procedure for quantization of images and videos in Actionscript 2.0. 5

OR

   (c) Explain any two algorithms used in lossless compression.

   5

   (d) What is use of Embedded Zero Tree of Wavelet Coefficient set partitioning in Hierarchical Tree (SPIHT) ? Explain. 5

5. (a) What is importance of RGB in colour images and videos ? 2½

   (b) How is image compression are performed ? 2½

   (c) Give use of any three classes used in Actionscript 2.0. 2½

   (d) Differentiate
   (i) Variable length coding
   (ii) Arithmetic coding 2½