Code No: N0524/R07

Set No. 1

IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
MULTIMEDIA AND APPLICATION DEVELOPMENT
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Explain the following image data types

    (a) 24 - Bit color Images
    (b) 8 - Bit color Images   [8+8]

2. Explain in detail about digital video signals.   [16]

3. (a) What is type checking? Give suitable examples in Action Script.
   (b) Write methods in Date class of Action Script.   [10+6]

4. (a) Explain when to use composition over inheritance.
   (b) Explain the following briefly
        i. Is - A relation
        ii. Has - A relation
        iii. Uses - A relation.   [10+6]

5. (a) Explain about how to handling component events.
   (b) Explain about the composition based avatar class.
   (c) Explain about the basic directory structure.   [6+5+5]

6. (a) Explain in Detail about variable length coding.
   (b) Discuss why we go for transform coding.   [12+4]

7. (a) Explain about MPEG-7 descriptions?
   (b) Explain about channel Vocoders?   [8+8]

8. (a) Explain broad cast schemes for video on demand in detail?
   (b) Explain the layers of OSI reference model?   [8+8]

⋆ ⋆ ⋆ ⋆ ⋆

Code No: N0524/R07

Set No. 2

IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
MULTIMEDIA AND APPLICATION DEVELOPMENT
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours   **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Explain in detail about color models in Images.   [16]

2. (a) Write about MIDI channel messages.
   (b) Write about MIDI system messages.   [10+6]

3. Explain casting mechanism in ACTION SCRIPT.   [16]

4. What is composition? Differentiate composition with inheritance.   [16]

5. (a) Explain about convert ( ) with example
   (b) Explain about attach movie( ) with example
   (c) Explain about how to improve the components package
   (d) Explain about the Title Label Component.   [4+4+4+4]

6. (a) Explain about VLC?
   (b) Briefly discuss about how to generate codeword for encoder.
   (c) Write short notes on one dimensional inverse DCT?   [6+5+5]

7. (a) Explain MPEG-2 Scalabilities?
   (b) Explain about Hierarchical search?   [8+8]

8. (a) What is the main difference between the OSI and TCP/IP reference models?
   (b) Explain about the quality of multimedia data transmission?   [8+8]

⋆ ⋆ ⋆ ⋆ ⋆

Code No: N0524/R07

Set No. 3

IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
MULTIMEDIA AND APPLICATION DEVELOPMENT
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Briefly explain the following file formats

    (a) Graphics Interchange Format (GIF)
    (b) JPEG.   [8+8]

2. Explain the following:

    (a) Digitization
    (b) Quantization.   [10+6]

3. (a) Write about overloading of methods in ACTION SCRIPT. Give an example program.
   (b) Can you overload constructor in ACTION SCRIPT? Explain.   [8+8]

4. (a) Explain when to use composition over inheritance.
   (b) Explain the following briefly
        i. Is - A relation
        ii. Has - A relation
        iii. Uses - A relation.   [10+6]

5. Explain the currency converter class with an example.   [16]

6. (a) Explain SPIT in detail.
   (b) Construct the coding tree for "WELCOME" using Shannon-Fano Algorithm and Huffman Coding.   [8+8]

7. Explain about:

    (a) Code excited linear prediction (CELP)
    (b) MPEG-21.   [8+8]

8. Write short notes on:

    (a) Harmonic broad casting
    (b) OSI (Open Systems Interconnection) network layers?   [8+8]

⋆ ⋆ ⋆ ⋆ ⋆

Code No: N0524/R07

Set No. 4

IV B.Tech I Semester Supplementary Examinations, Feb/Mar 2011
MULTIMEDIA AND APPLICATION DEVELOPMENT
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Write about $Y C_b C_r$ color model in detail and also explain where this model is used. [16]

2. (a) Write terminology regarding MIDI protocol.

   (b) Explain MIDI protocol concept in detail. [8+8]

3. Write the uses of ImageViewer in a movie and also explain in what way it differs from use of ImageViewer in Image. [16]

4. Define Exception. Differentiate it with compile time errors and also give one example in AS. [16]

5. (a) Explain about the flash document.

   (b) Explain about currency converter properties?

   (c) Explain about the composition based Avatar class? [5+5+6]

6. (a) Explain in detail about variable length coding.

   (b) Write a short notes on lioyd-max quantizes. [12+4]

7. (a) Explain 3D-Model based coding in MPEG-4?

   (b) Write short notes on hybrid Vocoders. [8+8]

8. (a) Write short notes on quality of Multimedia Data Transmission?

   (b) What is UDP? What is the importance of UDP? [8+8]

⋆ ⋆ ⋆ ⋆ ⋆