

Code No: 07A7EC22

R07**Set No. 2**

IV B.Tech I Semester Examinations, MAY 2011

MULTIMEDIA AND APPLICATION DEVELOPMENT

Common to Information Technology, Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) Explain SPIHT in detail?
(b) Explain in detail about variable - length coding. [8+8]
2. (a) Write the multimedia applications?
(b) Write short notes on real time streaming protocol (RTSP). [8+8]
3. Explain about:
(a) Multiband excitation linear predictive (MELP).
(b) Shape coding in MPEG-4. [8+8]
4. Explain how to write our own exceptions. Write a user defined exceptions and use it in a program. [16]
5. (a) Explain about the document timeline.
(b) Explain about movie clip subclasses. [8+8]
6. (a) Write about array declaration and initialization of it in ACTION SCRIPT. Give an example program.
(b) Explain the general syntax of method declaration containing method parameters and return data types. Give an example. [8+8]
7. The NTSC video has 525 lines per frame and 63.6 μ sec per lines with 20 lines per field of vertical retrace and 10.9 μ sec horizontal retrace.
(a) Where does the 63.6 sec come from?
(b) Out of horizontal retrace and vertical retrace which takes more time. [8+8]
8. (a) Briefly explain why we need to be able to have less than 24 bit color and why this makes a problem.
(b) Explain how to transform 24 bit color values to 8 bit ones. [8+8]

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R07**Set No. 4**

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Answer any FIVE Questions

All Questions carry equal marks

1. (a) Discuss about the Composition Based Avatar Class with an example?
(b) Explain about the Basic Directory Structure. [8+8]
2. (a) Explain about Shannan-fano algorithm.
(b) Explain about differential coding of images
(c) Explain about the idea behind vector quantization. [5+5+6]
3. Briefly write about the following:
 - (a) package
 - (b) Exception Handling
 - (c) Inheritance
 - (d) Dynamic Binding. [4+4+4+4]
4. Write about the following methods in ImageViewer class.
 - (a) loadImage()
 - (b) setImageClip()
 - (c) setTargetClip()
 - (d) setTargetClip() . [4+4+4+4]
5. (a) Explain an optimal plan for transmission rates in buffer management?
(b) Write five differences between TCP and UDP Protocols? [8+8]
6. (a) Explain how to generate device - independent color?
(b) What do you mean by Out-of-Gamut colors? [10+6]
7. (a) Explain five modes of predictions in MPEG-2?
(b) Explain the adaptive DPCM in speech coding? [8+8]
8. (a) Draw a diagram showing a sinusoidal at 5.5 KHz and sampling at 8 KHz (show the 8 intervals between samples).
(b) Draw the alias at 2.5 KHz and show that in the eight sample intervals, exactly 5.5 cycles of true signal fit into 2.5 cycles of the alias signal. [8+8]

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R07**Set No. 1**

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Answer any FIVE Questions

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1. (a) Explain how MPEG-2 has more enhancements than MPEG-1?
(b) Explain 2D Logarithmic search in detail? [8+8]
2. Explain about an OOP application frame work. [16]
3. Define class? Explain the different components of class body. [16]
4. (a) Draw and explain the schematic diagram of encoder for DPCM.
(b) Draw and explain the schematic diagram of decoder for DPCM. [8+8]
5. (a) Explain about RLC?
(b) What are the additional features contain the adaptive Huffman coding compared to the original Huffman coding algorithm? [6+10]
6. (a) What is multimedia networks? Write the basics about computer and multimedia Networks.
(b) Explain about real time transport protocol (RTP). [8+8]
7. What do you mean by “un qualified member references”? Explain. [16]
8. (a) Write the difference between YUV color model with YIQ color model.
(b) Suppose images are not gamma corrected by a camcorder. Generally, how they would appear on the screen? [8+8]

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R07**Set No. 3**

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. Explain the following questions.
 - (a) How to Initializing avatar instances.
 - (b) Currency converter properties.
 - (c) Properties and methods of nested assets. [6+5+5]
2. (a) When should RTP be used and when should RTSP be used? is there any Advantage in combining both protocols?
(b) Describe about multimedia networks? [8+8]
3. Explain the following image data types
 - (a) 24 - Bit color Images
 - (b) 8 - Bit color Images [8+8]
4. Write a program in ACTION SCRIPT containing a method with variable number of arguments. [16]
5. (a) Write the seven key elements in MPEG-21?
(b) Write about Phase insensitivity of Vocodes? [8+8]
6. Write in detail about Quantization and transmission of audio signals. [16]
7. (a) Discuss about RLC?
(b) Write short notes on the idea behind vector quantization?
(c) Write a short notes on lossless JPEG? [5+5+6]
8. Explain how to add resize the view region feature to ImageViewer class. [16]
