

Code No: **R4205B**

R10

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016
MULTIMEDIA AND APPLICATION DEVELOPMENT
(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Explain about macromedia director. [8]
b) Describe about multimedia authoring tools. [7]
- 2 a) Describe about digital audio. [7]
b) Write a short note on DPCM. [8]
- 3 a) Describe about Bound methods in Action Script. [7]
b) Write about associative arrays and objects. [8]
- 4 Define Exception. Differentiate it with compile time errors and also give one example in Action Script. [15]
- 5 a) Describe about mouse event classes in Action Script. [8]
b) Write a short note on movie clip object properties. [7]
- 6 a) Explain Shannon-Fano Algorithm with a suitable example. [8]
b) Explain LZW compression algorithms. [7]
- 7 Explain in detail about MPEG-2 AAC (Advanced Audio Coding). [15]
- 8 a) What is multiplexing? Describe different multiplexing techniques. [7]
b) Write about ISDN. [8]

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Set No. 2

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Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) What is multimedia and also describe the components of multimedia. [6]
b) What is gamma correction? [9]
- 2 a) State and explain Nyquist theorem. [8]
b) What is MIDI? [7]
- 3 a) Write about package-level functions of Action Script. [8]
b) Write methods in Date class of Action Script. [7]
- 4 a) What is Flash? Discuss its advantages and disadvantages. [7]
b) Write about overloading of methods in ACTION SCRIPT. [8]
- 5 a) What is display list? Describe the procedure to adding Symbol Instances to the Display List from the Library. [9]
b) Explain about the flash document. [6]
- 6 a) Describe lossless JPEG compression algorithm. [8]
b) What are the advantages and disadvantages of Arithmetic Coding as compared to Huffman Coding? [7]
- 7 What is video compression? Write in detail about H.261 encoder and decoder. [15]
- 8 a) Compare and contrast between ADSL and VDSL. [8]
b) What are Gigabit Ethernets, explain their significance in multimedia transmission? [7]

Code No: **R4205B****R10****Set No. 3**

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MULTIMEDIA AND APPLICATION DEVELOPMENT
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Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) What is WWW? Briefly discuss the importance of HTTP protocol. [8]
b) Write a short note on Music Sequencing and Notation tools. [7]
- 2 a) Explain about HDTV technology. [8]
b) Explain the advantages of digital video over analog video. [7]
- 3 a) Write a program that shows the usage of data types. [8]
b) Write a program to create custom list in Action Script. [7]
- 4 Explain the steps to create a .swc-Based Class Library in the Flash Authoring Tool? [15]
- 5 a) Explain the polymorphism and dynamic binding in Action Script. [7]
b) Differentiate between Inheritance and composition. [8]
- 6 a) What is distortion measure? Explain about quantization in lossy algorithms. [7]
b) Write about non uniform scalar quantization. [8]
- 7 a) In block-based video coding, what takes more effort: compression or decompression? Briefly explain why. [6]
b) Explain the layers of MPEG-1 video bit stream. [9]
- 8 a) As a variation of FDM, WDM is used for multiplexing over fiber-optic channels. Compare WDM with FDM. [8]
b) How many sub layers are there in ATM? What are they? [7]

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Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Compare and contrast hypermedia and multimedia. [6]
b) Briefly write about Graphics and image data types. [9]
- 2 a) Write about types of video signals. [7]
b) Explain about NTSC analog video broadcast system. [8]
- 3 a) Explain the features provided by Action Script 2.0. [8]
b) What are the complex data types used in Action Script? [7]
- 4 a) What is exception bubbling? [7]
b) Describe the procedure to Handle a Built-in Exception. [8]
- 5 a) Explain about how to handling component events. [7]
b) Explain about the basic directory structure. [8]
- 6 a) Explain the idea behind Vector Quantization. [8]
b) What is transform coding? Explain in detail about DCT. [7]
- 7 a) Compare and contrast MPEG-1 and MPEG-2. [8]
b) Write a short note on MPEG-4 audio. [7]
- 8 a) Describe the parameters for quality of multimedia data transmission. [8]
b) Explain IP-Multicast. [7]