

END-TERM EXAMINATION

DECEMBER 2006

Exam Series code: 100588DEC06200634	
Paper Code : MCA-305	Subject: Multimedia Technology

Time: 3 Hours

Maximum Marks: 60

Note: Attempt five questions including Question No. 1 which is compulsory.

- Q. 1. Answer the following : (2 x 10 = 20)
- (a) Multimedia
 - (b) Hypermedia
 - (c) VRML
 - (d) Multimedia Conferencing
 - (e) Differential encoding.
 - (f) Lossy and lossless compression
 - (g) Interactive television
 - (h) FFT
 - (i) Inter and Intra compression.
 - (j) PCM
- Q. 2. Explain different software and hardware used in developing multimedia products? Explain with example (10)
- Q. 3. (a) Why cannot we use lossy compression techniques in text like images? (3)
(b) Explain how Huffman Tree is developed and used to compress text? (7)
- Q. 4. (a) State the basic form of representation of text, an image, audio and video? (5)
(b) Explain the principle of operation of LZ compression algorithm. (5)
- Q. 5. (a) Differentiate the tools like Dream Weaver, 3D effects and explain the features in it. (7)
(b) What are the responsibilities of web servers? Explain its role. (3)
- Q. 6. (a) Explain the working principle of web browsers? (5)
(b) Explain the difference between block media and continuous media. (5)
- Q. 7. (a) What is plug-ins? Explain with examples. When do we use them and how? (6)
(b) What is DCT? Explain its role in compression. (4)
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(Please Write your Exam Roll No. immediately)

Roll No.

END-TERM EXAMINATION

FIFTH SEMESTER [MCA] - DECEMBER 2005

Paper Code: MCA-321 **Subject: Multimedia**

Time: 3 Hours **(Batch – 2001, 2002 & 2003)** **Maximum Marks: 60**

Note: Attempt five questions in all, including Q. 1 which is compulsory.

- Q. 1. What is multimedia? Explain its applications in various fields. **12**
- Q. 2. How will you select hardware and software for multimedia applications?
Discuss. **12**
- Q. 3. (a) What is virtual reality? Explain about VRML. **8**
(b) What is Video Conferencing? **4**
- Q. 4. (a) What is the importance of color models in image compression? **5**
(b) How MPEG files are generated? Explain the different types of frames used in it. **7**
- Q. 5. (a) What is animation? Explain its types? **8**
(b) What is the difference between morphing and animation? **4**
- Q. 6. (a) What is PCM, DPCM and ADPCM? **6**
(b) Explain Internet, Intranet and Extranet with an example? **6**
- Q. 7. Write short notes on following terms :- **12**
(a) JPEG
(b) GIF
(c) AVI
(d) MP3
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Roll No.

END-TERM EXAMINATION

FIFTH SEMESTER [MCA] - DECEMBER 2002

Paper Code: MCA-321

Subject: Multimedia

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any five questions. All question carry equal marks.

- Q. 1. (a) What is multimedia? Explain its applications in various fields. **8**
(b) What are different Hardware and Software requirement for multimedia? **4**
- Q. 2. (a) What is meant by Authoring of Software and Explain about authoring tools?
(b) What are the differences between Analog and Digital signals?
- Q. 3. (a) What PCM, DPCM, ADCM?
(b) Explain about immersed and not-immersed systems in virtual reality?
- Q. 4. Explain different animation techniques?
- Q. 5. (a) Why do you need Data Compression? Explain different techniques.
(b) Explain the concept or procedure of making JPEG file?
- Q. 6. (a) What are the various components of an IP address? How is the domain naming done? Give appropriate examples?
(b) What is the role of color models in image compressions?
- Q. 7. (a) What is the role of HTML and HTTP in delivering and launching multimedia on the web?
(b) Explain the concept of video conferencing?
- Q. 8. (a) Write short notes on Digital broadcasting?
(b) What do we use the following file formats.
(i) JPG (ii) MP3 (iii) WAV (iv) AUI
(V) AIFF (vi) AV

(Please Write your Exam Roll No. immediately)

Roll No.

END-TERM EXAMINATION
FIFTH SEMESTER [MCA] - DECEMBER 2001

Paper Code: MCA-321

Subject: Multimedia

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any five questions.

- Q. 1. (a) What is the purpose of Multimedia Highway? What is Interactive Multimedia? **6**
- (b) Discuss various applications and uses of multimedia. **6**
- Q. 2. (a) What are the various stages in a multimedia project? What are the basic requirements to make good multimedia? **6**
- (b) Discuss the skill set required for multimedia development for CD-ROM on the web **6**
- Q. 3. (a) Explain the working of a CD-ROM. Differentiate between CDROM and DVD technology. **6**
- (b) Which platform is more suitable for multimedia application development and why? How are the connections established during multimedia presentations? **6**
- Q. 4. (a) How would you convert a sound wave into digital pattern? What are the advantages and disadvantages of the process? **6**
- (b) Describe the process of creation of a multimedia application; user interface and essential requirement in detail. **6**
- Q. 5. (a) What are the various components of an IP address? How is the domain naming done? Give appropriate examples. **6**
- (b) Describe any two compression technique in details. **6**
- Q. 6. (a) Discuss the features of a Multimedia Authoring tool. Name any two popular multimedia authoring tools and mention their special features. **6**
- (b) What is the basic function of the following tools for the WWW? **1.5 x 4**
- (i) Web Servers
 - (ii) Web Browsers
 - (iii) Web page Makers and Site builders
 - (iv) Plug-ins and Delivery Vehicles.
- Q. 7. (a) What is the role of HTML and HTTP in delivering and launching multimedia on the web? **6**
- (b) Where do we use the following file formats in multimedia applications. **6**

- (i) JPG
- (ii) MP3
- (iii) WAV
- (iv) AIFF
- (v) AU
- (vi) MIDI
- (vii) AVI

Q. 8. Write short notes on any two topics.

6 + 6

- (a) Interactive TV
 - (b) Video Conferencing
 - (c) Recordable CD-ROM's
 - (d) Digital Broadcasting
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