

(6 pages)

Reg. No. :

Code No. : 9920

Sub. Code : HCAM 41

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Fourth Semester

Computer Application

MULTIMEDIA AND ITS APPLICATION

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. A multimedia file
- (a) is same as any other regular file
 - (b) must be accessed at specific rate
 - (c) stored on remote server cannot be delivered to its client
 - (d) none of the mentioned

2. Hyper Media is a
- (a) Separate media
 - (b) Linked concepts
 - (c) Separate concepts
 - (d) Linked media rating
3. Web sites is called
- (a) Web authoring
 - (b) HTML creating
 - (c) Storyboard designing
 - (d) Web mapping
4. The creation of a storyboard is the _____ step of development.
- (a) Planning
 - (b) Designing
 - (c) Creating
 - (d) Supporting
5. Dictionary coding is to build a dictionary that contains _____ occurring symbols and string of symbols.
- (a) Frequently
 - (b) Distributed
 - (c) Continuous
 - (d) None
6. SPHIT stands for
- (a) Set Partitioning In Hierarchical Tress
 - (b) Subset Partitioning In Hierarchical Tress
 - (c) Set Patterning In Hierarchical Tress
 - (d) None

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7. _____ is used to compress video.
- (a) MPEG (b) JPEG
- (c) either a or b (d) none of the above
8. _____ audio/video refers to the use of the Internet for interactive audio/video applications.
- (a) Interactive (b) Streaming live
- (c) Streaming stored (d) none of the above
9. Users navigate freely through the content of a project, unbound by predetermined routes in the _____ model of a multimedia project.
- (a) Composite (b) Hierarchical
- (c) Linear (d) Non-linear
10. Which one of the following resource is not necessarily required on a file server?
- (a) secondary storage (b) processor
- (c) network (d) monitor

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write the difference between YUV color models with YIQ color model.

Or

- (b) Explain the main aspects of the MIDI specifications.

12. (a) List and discuss the different stages of making multimedia project.

Or

- (b) Explain the concept of Object — oriented action script.

13. (a) Why compression and decompression are needed? Mention types of compression and Explain briefly.

Or

- (b) Write short note on

(i) Transform Coding

(ii) Wavelet Based coding



14. (a) Explain various standards used in Video compression.

Or

- (b) Explain how sound editing tools are used?

15. (a) Explain the following terms associated with digital sound

- (i) Sample Rate
- (ii) Sample Size
- (iii) Quantization
- (iv) Noise
- (v) Frequency

Or

- (b) Write a note on Media on Demand.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss the history and future of Multimedia.

Or

- (b) What is the difference between multimedia and hypermedia? Discuss about usage of various multimedia software tools.

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17. (a) List different types of Authoring tools. What features should be considered while selecting authoring tools for multimedia presentation. Explain in detail.

Or

- (b) Explain how object oriented concepts are inherited through action script with example.

18. (a) Discuss in detail about multimedia development tools.

Or

- (b) Explain the data compression technique and its type used in multimedia.

19. (a) Discuss in detail about application of digital video in multimedia.

Or

- (b) Discuss in detail about MPEG.

20. (a) Discuss about multimedia network architecture.

Or

- (b) Explain various multimedia network performance issues.

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