

(6 pages)

Reg. No. :

Code No. : 6936

Sub. Code : H CAM 41

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2016.

Fourth Semester

Computer Applications

MULTIMEDIA AND ITS APPLICATIONS

(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. _____ is the largest and most commonly used hypermedia application
- (a) Multimedia (b) WWW
- (c) DBMS (d) None

2. File formats are _____
- (a) GIF and JPEG (b) PNG and TIFF
- (c) EXIF (d) All the above
3. Instance of a class is called _____
- (a) Inheritance (b) Polymorphism
- (c) Object (d) None
4. Errors can be trapped using _____ features
- (a) Polymorphism (b) Interface
- (c) Package (d) Exception handling
5. _____ exploits memory present in the information source
- (a) VLC (b) RLC
- (c) Both (a) and (b) (d) None
6. The _____ algorithm employs an adaptive dictionary based compression technique
- (a) Lempel-Ziv-Welch (b) Huffman
- (c) Shannon-Fano (d) None

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7. Layers of MPEG-1 video bit stream —————

- (a) Sequence and picture
- (b) Group of pictures and slice
- (c) Macroblock and block
- (d) All the above

8. ————— delivers the complete MPEG-4 visual scene, which may contain 2D or 3D natural or synthetic objects

- (a) VOL (b) GOV
- (c) VO (d) VS

9. ————— is connection oriented protocol

- (a) TCP (b) UDP
- (c) Both (a) and (b) (d) None

10. RTCP stands for —————

- (a) Real Time Control Protocol
- (b) Resource Time Control Protocol
- (c) Real Time Streaming Protocol
- (d) Real Time Transport Protocol

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) What is multimedia?

Or

(b) Write short note on graphics/image datatypes.

12. (a) What are the features of action script?

Or

(b) What is the use of interface? Write down the syntax of interface.

13. (a) Expand and explain SPIHT in detail.

Or

(b) What is lossless image compression?

14. (a) Describe in detail about video compression.

Or

(b) What is vocoders? Explain channel vocoder and formant vocoder in detail.

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[P.T.O.]



15. (a) What is media on demand? Give a brief note on it.

Or

- (b) Explain the parameters influencing the quality of service for multimedia data transmission.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write short note on world wide web.

Or

- (b) What is color science? Give a brief note on it.

17. (a) What is exception? What are the keywords used in exception? Give an example.

Or

- (b) Define package. Explain package access and class path in detail.

18. (a) What is variable length coding? Explain Huffman coding in detail.

Or

- (b) Explain wavelet-based coding in lossy compression algorithm.

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19. (a) What are the different types of basic audio compression techniques available? Explain.

Or

- (b) Write short note on MPEG-1 and MPEG-2.

20. (a) Write short note on the following :

- (i) OSI network layers
- (ii) TCP/IP protocols.

Or

- (b) Explain multimedia over IP in detail.

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