

**END TERM EXAMINATION**

SIXTH SEMESTER [BCA] MAY- JUNE 2018

**Paper Code: BCA-308****Subject: Multimedia and its application****Time: 3 Hours****Maximum Marks: 75****Note: Attempt any five question including Q.No 1 which is compulsory.**Q1. Attempt **any ten**:- (2.5x10=25)

- (a) Which are the various Media elements required to develop Multimedia? ✓  
 (b) Explain the Applications of Multimedia in the field of:-  
 (i) Travel and Tourism  
 (ii) Engineering Applications  
 (c) Explain the types of Multimedia projects. ✓  
 (d) What is meant by Quality of Service in MMDB systems? ✓  
 (e) Explain the requirements of CODEC. ✓  
 (f) What is MP3 and how it is different from MP1 and MP2? ✓  
 (g) Differentiate between HTML and XML.  
 (h) Which are the various editors available to develop Web pages? ✓  
 (i) List any four ways in which digital communication and new media can be useful.  
 (j) What is Keyfram Animation? ✓  
 (k) What is the special requirement with respect of processor and memory for multimedia projects? Why? ✓

Q2 (a) What is meant by Authoring System? Explain the various types of Authoring Tools. (6.5)

(b) Which are the various steps required to develop Multimedia Project. (6)

Q3 (a) What is Data Compression? Differentiate between Lossless and Lossy Data Compression. Explain the various Lossy Data compression Techniques. (6)

(b) Explain the steps required for the process of Digitization in detail with the help of diagram representing each phase. (6.5)

Q4 (a) What are the various Tangible and Intangible requirements for developing Multimedia Projects? (7.5)

(b) Differentiate between Media Communication and Media Consumption. (5)

Q5 (a) What is meant by Virtual Reality? What are its different forms? (6)

(b) What are the advantages of Multimedia conferencing? (6.5)

Q6 (a) Differentiate between Shannon-Fano coding and Huffman coding. (5)

(b) A document contains letters A through F with frequencies as indicated: (7.5)

A	B	C	D	E	F
0.2	0.1	0.15	0.13	0.3	0.12

- (i) Derive a code word set using Huffman Coding.  
 (ii) Find average number of bits per code word.  
 (iii) Find the minimum number of bits required assuming fixed length code words.

Q7 (a) What is WEB 2.0? Explain various WWW Tools. (6)

(b) What is the role of HTML and HTTP in delivering and launching Multimedia on web? (6.5)

Q8 Write short notes on the following:- (4.5)

- (a) Working of CD (4)  
 (b) Plugins (4)  
 (c) Interactive Television

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