Printed Pages: 01 **Sub Code: MTCS036**

Paper Id: 210206 **Roll No.** | | | | | | | | | | |

M. TECH.
(SEM-II) THEORY EXAMINATION 2018-19
MULTIMEDIA SYSTEMS

Time: 3 Hours ***Total Marks: 70***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. Define multimedia.
b. Describe MPEG.
c. What is Animation?
d. Define optical media.
e. What is video streaming?
f. What is MAC protocol?
g. What is multimedia network?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. Explain the Lossless and Lossy compression technique with example.
b. Explain the followings (i) Run length coding (ii) Statistical Coding
c. Explain the text compression using static Huffmann technique with example.
d. Define dynamic Huffmann technique with one example.
e. Explain tweaning & morphing in multimedia animation in detail.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain the multimedia communication. Explain the techniques to achieve it.
(b) Describe the followings (i) Hybrid MAC (ii) 3D Animation.

4. Attempt any *one*part of the following: 7 x 1 = 7

(a) What is Authoring tools? Describe the various authoring tools in multimedia system.
(b) Write short notes on followings (i) MIDI (ii) Graphics Format (iii) Computer based animation

5. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain End to End QoS provisioning in Wireless Multimedia Networks in detail.
(b) Describe the compression techniques of JPEG images in detail.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a) Describe the basic steps for MPEG encoding & decoding process with the help pf block diagram.
(b) Explain the Call Admission Control in Wireless Multimedia Networks in detail.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain the followings in detail (i) RTP (ii) H.263
(b) Explain the MAC layer QoS enhancements in Wireless Networks in detail.