Reg. No. : | | | | | | | | | | |

Question Paper Code: 59410

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Electronics and Communication Engineering

15UEC910 - MULTIMEDIA COMPRESSION AND COMMUNICATION

(Regulation 2015)

Duration: One hour Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Identify a Multimedia Component CO1- R

   (a) Speaker (b) Modem (c) Video Camera (d) UPS

2. A video consists of a sequence of CO1- R

   (a) Frames (b) Signals (c) Packets (d) Slots

3. Which image files are a lossy format? CO2- R

   (a) GIF (b) MPEG (c) JPEG (d) PNG

4. Which of the following is an example of a lossy image format? CO2- R

   (a) TIFF using LZW compression (b) JPEG of medium quality

   (c) GIF without dithering (d) All of the above

5. Moving Picture Experts Group (MPEG-2), was designed for high-quality DVD with a data rate of _____ CO3- R

   (a) 3 to 6 Mbps (b) 4 to 6 Mbps (c) 5 to 6 Mbps (d) 6 to 7 Mbps

6. Most common compression technique that is used to create CD-quality audio is based on perceptual encoding technique is called CO3- R

   (a) Perceptual Encoding (b) MPEG

   (c) JPEG (d) Predictive Encoding

7. Choose the correct VOIP provider CO4-R

   (a) SKYPE (b) MATLAB (c) MOTOROLA (d) NOKIA

8. H.323 uses G.71 or G.723.1 for CO4-R

(a) Compression (b) Communication (c) Controlling (d) Conferencing

9. The delay that occur during the playback of a stream is called CO5- R

(a) long video clips (b) short video clips

(c) extremely short and low quality videos (d) None of the above

10. Real time streaming is most useful for CO5- R

(a) stream delay (b) playback delay (c) jitter (d) event delay

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.	Explain in detail about the multimedia skills.	CO1- U	(8)
12.	Consider a DMS with seven possible symbols x_i, i=1,2,3 and the corresponding probabilities are $P(x_1)=0.5$, $P(x_2)=0.3$and $P(x_3)=0.2$. Apply Huffman coding procedure to find the codeword and compare the efficiency when second order extension is applied.(A)	CO2- App	(8)
13.	Describe the third order predictive DPCM signal encoder and decoder with neat schematic.	CO3 -U	(8)
14.	Explain the network architecture of H.323. Also discuss on how call can be established and released in H.323	CO4- U	(8)
15.	Discuss on different real time interactive applications with necessary diagrams**.**	CO5 -U	(8)