University of Mumbai

Examinations Commencing from 23rd December 2020 to 6th January 2021 and from 7th January 2021 to 20th January 2021

Program: **Computer Engineering**

Curriculum Scheme: **Rev2016**

Examination: **TE** Semester **V**

Course Code: **CSDLO5011** and Course Name: **Multimedia System**

Time: 2 hour Max. Marks: 80

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	**A video consists of a sequence of**
Option A:	Frames.
Option B:	Signals.
Option C:	Packets.
Option D:	Slots.
Q2.	**If frames are displayed on screen fast enough, we get an impression of**
Option A:	Signals.
Option B:	Motions.
Option C:	Packets.
Option D:	Bits.
Q3.	**H.323 uses G.71 or G.723.1 for**
Option A:	Compression.
Option B:	Communication.
Option C:	Controlling.
Option D:	Conferencing.
Q4.	**To receive signal, a translator is needed to decode signal and encode it again at a**
Option A:	High Quality.
Option B:	Lower Quality.
Option C:	Same Quality.
Option D:	Bad Quality.
Q5.	**We can divide audio and video services into**
Option A:	1 broad categories.
Option B:	2 broad categories.
Option C:	3 broad categories.
Option D:	4 broad categories.
Q6.	In Video Compression, an independent frame that is not related to any other frame is called
Option A:	B-Frame.
Option B:	C-Frame.
Option C:	I-Frame.
Option D:	P-Frame

Q7.	**RTP uses a temporary even-numbered**
Option A:	RTCP.
Option B:	SMTP.
Option C:	UDP port.
Option D:	TCP
Q8.	**HTTP client accesses Web server by using the**
Option A:	SEND message.
Option B:	GET message.
Option C:	AUTO receive message.
Option D:	PUSH message
Q9.	**In Joint Photographic Experts Group (JPEG), a gray scale picture is divided into blocks of**
Option A:	5 X 5 pixels.
Option B:	6 X 6 pixels.
Option C:	7 X 7 pixels.
Option D:	8 X 8 pixels.
Q10.	**MP3 produces three data rates from 96 Kbps to**
Option A:	128 Kbps.
Option B:	164 Kbps.
Option C:	256 Kbps.
Option D:	320 Kbps
Q11.	For Music, we need to compress digitize signals at
Option A:	1.41 I-MHz.
Option B:	1.42 I-MHz.
Option C:	1.45 I-MHz.
Option D:	1.48 I-MHz.
Q12.	Sometimes real-time traffic needs
Option A:	Organization.
Option B:	Traffic.
Option C:	Channelizing.
Option D:	Translation.
Q13.	**In Real-Time Transport Protocol (RTP), source periodically sends a source description message to give additional information about**
Option A:	Others.
Option B:	Itself.
Option C:	Protocols.
Option D:	Packets.
Q14.	**In Real-Time Transport Protocol (RTP), A source sends a bye message to shut down a**
Option A:	System
Option B:	Frames.
Option C:	IP
Option D:	Stream.

Q15.	**In Audio and Video Compression, term RBG expresses**
Option A:	Red, Blue, Green.
Option B:	Red, Black, Grey.
Option C:	Rate, Bit, Giga bit.
Option D:	Red, Bluish, Greyish.
Q16.	**To perform tracking of an IP, Session Initiation Protocol (SIP), uses concept of**
Option A:	Registration.
Option B:	Termination.
Option C:	Streaming.
Option D:	Translation.
Q17.	**A simple session using Session Initiation Protocol (SIP), consists of three modules: establishing, communicating, and**
Option A:	Transmission.
Option B:	System.
Option C:	Streaming
Option D:	Terminating.
Q18.	**In Session Initiation Protocol (SIP), session can be terminated with a**
Option A:	OK Message.
Option B:	Bye Message.
Option C:	Terminate Message.
Option D:	Quit Message.
Q19.	**RTCP stands for**
Option A:	Real-time Transport Control Program.
Option B:	Real-time Transport Control Packet.
Option C:	Real-time Transport Control Protocol
Option D:	Real-time Transport Control Path.
Q20.	**A compressed audio/video file can be downloaded as a**
Option A:	Image.
Option B:	Video.
Option C:	Frame.
Option D:	Text file

Q2 **(20 Marks)**	**Solve any Two** **5 marks each**
A	
i.	What are advantages and disadvantages of lossy and lossless compression.
ii.	Compare and contrast RIFF and TIFF.
iii.	Explain JPEG file format and methodology.
B	**Solve any One** **10 marks each**
i.	With block diagram explain MPEG Methodology.
ii.	With neat labeled diagram explain IMA architecture framework for multimedia system architecture.

Q3 **(20 Marks)**	**Solve any Two** **5 marks each**
A	
i.	Compare and contrast ATM and FDDI
ii.	Differntiate between PCM and DPCM
iii.	What is Multimedia? Describe elements of multimedia in detail.
B	**Solve any One** **10 marks each**
i.	Describe different binary image compression schemes.
ii.	Write short notes on Audio compression