

Term End Examination January – 2026

Course	: DMA	Date	: 28/02/2026
Subject Code	: DMA-101	Time	: 11:30am to 01:45pm
Subject Name	: Introduction to Multimedia	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three)

(30)

1. Explain the components of a typical multimedia computer system and describe the functions of the Graphics Processing Unit (GPU).
2. Define Multimedia Software. Differentiate between System Software, Application Software, and Utility Software with relevant examples.
3. Discuss the characteristics and requirements of a Multimedia Operating System compared to a traditional Operating System.
4. What is 2D Animation? Describe the complete process of 2D animation production, from pre-production to post-production.
5. Explain the role of Satellites in the content distribution system and describe various Digital Video formats used in the industry.

Section B

Answer the following (Attempt any four)

(20)

1. What is a pointing device? List and briefly explain any five examples of pointing devices.
2. Explain the concept of "Software Licensure Agreement" and identify the common types of software piracy.
3. Define "Quality of Service" (QoS) in the context of Multimedia Communication Systems and list its key parameters.
4. Describe the "3D Modelling" and "Rigging & Skinning" phases in the 3D animation process.
5. What are the primary differences between Raster and Vector graphics? Provide examples of each.
6. Explain the significance of "Reverberation" and "Noise" in audio recording quality.

Section C

Part – A (Multiple Choice Questions)

(10)

- Which of the following is a non-volatile memory?
A RAM
B ROM
C Cache
D Virtual Memory
- The "Red Book" standard describes the logical format for:
A Video CD
B Audio CD
C Photo CD
D DVD-ROM
- In MS Paint, which tool is used to fill an area of a single color with a different color?
A Pencil
B Color Picker
C Fill with Color
D Airbrush
- Which operating system is an example of an "Open Source" system?
A Windows 10
B Mac OS
C Linux
D Windows Vista

- 5 The smallest unit of storage is:
A Byte B Nibble
C Bit D Kilobyte
- 6 What does CMYK stand for in printing technology?
A Cyan, Magenta, Yellow, Khaki B Cyan, Magenta, Yellow, Black
C Crimson, Magenta, Yellow, Blue D Cyan, Maroon, Yellow, Black
- 7 Which of the following is a "Lossy" audio compression format?
A WAV B MP3
C FLAC D AIFF
- 8 The term "Animate" literally means:
A To draw B To move
C To give life to D To color
- 9 A Metropolitan Area Network (MAN) covers a geographical area larger than:
A WAN B LAN
C Internet D PAN
- 10 In HTML, which tag is used to create a hyperlink?
A B
C <a> D <body>

Part – B (Do as Directed)

(10)

State whether the following statements are true or false

- 1 A GPU is primarily used for 3D applications and lighting effects.
- 2 Random Access Memory (RAM) is a permanent storage device.
- 3 "Persistence of Vision" is the principle behind the illusion of motion in animation.
- 4 A scanner is an output device used for presenting multimedia projects.
- 5 HTML is a programming language used for complex mathematical calculations.
- 6 The "Kineograph" is another name for a flipbook.
- 7 A "Hard Deadline" in real-time systems can be occasionally violated without system failure.
- 8 JPEG is a vector-based image format.
- 9 The "Master Control Room" is the repository for video tapes in a television station.
- 10 In 3D animation, "Inorganic Modelling" refers to characters that have body movement.
