



End Term (Odd) Semester Examination November 2025

Roll no.....

Name of the Course and semester: Diploma Vth
Name of the Paper: Multimedia and Animation Technique
Paper Code: DTCS-502

Time: 3 hour Maximum Marks: 100

Note:

- (i) All the questions are compulsory.
- (ii) Answer any two sub questions from a, b and c in each main question.
- (iii) Total marks for each question is 20 (twenty).
- (iv) Each sub-question carries 10 marks.

Q1. (2X10=20 Marks)

- a. Describe the architecture of a distributed multimedia system and its major components. (CO1)
- b. What do you understand by Synchronization, Orchestration, and Quality of Service (QoS) in multimedia systems? (CO1)
- c. Explain the different multimedia elements and their roles in a multimedia system. (CO1)

Q2. (2X10=20 Marks)

- a. Explain the JPEG architecture and the role of DCT encoding and quantization in JPEG compression. (CO2)
- b. Write short notes on RIFF, TIFF, and AVI file formats. (CO2)
- c. Discuss the standardization of video compression algorithms and their importance in multimedia applications. (CO2)

Q3. (2X10=20 Marks)

- a. Explain the steps involved in user interface design for multimedia applications. (CO3)
- b. Discuss information access techniques in multimedia authoring systems. (CO3)
- c. Define multimedia authoring and explain its different types of authoring systems. (CO3)

Q4. (2X10=20 Marks)

- a. Compare various multi-server network topologies used in multimedia systems. (CO4)
- b. What is a multimedia object server, and what are its key functions? (CO4)
- c. Explain the distributed client-server operation model used in multimedia networks. (CO4)

Q5. (2X10=20 Marks)

- a. What is Flash, and why is it considered an important multimedia creation tool? (CO5)
- b. How are selection tools (arrow, lasso, etc.) used in Flash for editing objects? (CO5)
- c. Describe the use of line tool, fill tool, shape tool, text tool, and pen tool in Flash. (CO5)