



FINAL EXAMINATION

Semester		SEPTEMBER 2025 SEMESTER
Programme Name	:	DIPLOMA IN COMPUTER SCIENCE
Course Code & Name	:	DCS2353 MULTIMEDIA PRINCIPLES
Duration	:	3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Please read the instructions given in the question paper **CAREFULLY**.
2. The question paper consists of **FOUR (4)** questions.
3. Answer **ALL** questions in the question paper.
4. Answers to the questions are to be written into the examination booklet.
5. Electronic dictionaries, lecture notes, files or any unauthorised materials except writing equipment are strictly prohibited.

This question paper must be submitted along with all used and/or unused rough papers and/ or graph papers (if any). Candidates are **NOT ALLOWED** to take any examination paper(s) used or unused out of the examination hall.

WARNING:

The Examination Board of Peninsula College Georgetown regards cheating as a very serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from Peninsula College Georgetown.

(This booklet contains 2 printed pages including this page)

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ALLOWED TO DO SO

Answer **ALL** questions on the separate sheet provided.

[100 marks]

1. a) Explain the concept of multimedia with the aid of a relevant multimedia use case or application. (5 marks)

- b) Describe **FIVE (5)** core components of multimedia and their applications. (20 marks)
Total: [25 marks]

2. a) Define Open-Source Software and Closed-Source (Proprietary) Software, and provide examples related to multimedia. (5 marks)

- b) Discuss **FIVE (5)** main differences between Open-Source and Closed-Source (Proprietary) Software in multimedia applications. (20 marks)
Total: [25 marks]

3. a) Explain the important role of a storyboard in the context of multimedia video production. (5 marks)

- b) Discuss the importance of project planning in the **THREE (3)** main phases of production: Preproduction, Production, and Postproduction. (12 marks)

- c) Define **FOUR (4)** elements of a script. (8 marks)
Total: [25 marks]

4. a) Describe **ONE (1)** difference between Serif and Sans Serif typefaces. Provide **ONE (1)** example for each and suggest a suitable use case in multimedia design. (4 marks)

- b) Explain **THREE (3)** differences between Raster images and Vector graphics. Provide **TWO (2)** common file formats for each type. (10 marks)

- c) Explain the characteristics of **THREE (3)** different video file formats (extensions), including their developers and common uses. (6 marks)

- d) Draw a labelled diagram illustrating the typical workflow for creating an animation in a multimedia project. Your diagram should clearly show the sequence of the main phases from initial planning to final delivery. (5 marks)
Total: [25 marks]

- END OF QUESTIONS -