UNIVERSITY COLLEGE
TATI

UNIVERSITY COLLEGE TATI (UC TATI)

FINAL EXAMINATION QUESTION BOOKLET	
COURSE CODE	: BCS 2543
COURSE	: MULTIMEDIA TECHNOLOGY
SEMESTER/SESSION	: 2-2024/2025
DURATION	: 3 HOURS

Instructions:

1. This booklet contains **5** questions. Answer **ALL** questions.

2. All answers are to be written in answer booklet.

3. Write legibly and draw sketches wherever required.

4. If in doubt, raise your hands and ask the invigilator.

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

THIS BOOKLET CONTAINS 5 PRINTED PAGES INCLUDING COVER PAGE

QUESTION 1

a) Define **FIVE (5)** multimedia elements involved in multimedia application.

(5 marks)

b) Differentiate between linear and non linear multimedia project. Give **ONE (1)** example for each.

(4 marks)

c) Explain **TWO (2)** reasons why use multimedia technology in education field.

(4 marks)

d) Syafi Hanis plans to buy a new computer for her multimedia works. Suggest **TWO (2)** hardware specification that she must consider before purchasing the computer.

(4 marks)

e) Describe the characteristics between analog and digital data.

(4 marks)

f) Compare **TWO (2)** characteristics of lossy and lossless compression. Give **ONE (1)** example for each.

(6 marks)

QUESTION 2

a) Explain the differences between leading and kerning and give examples. (4 marks)

b) Distinguish **TWO(2)** characteristics between Serif and Sans Serif with **ONE(1)** example of illustration. (6 marks)

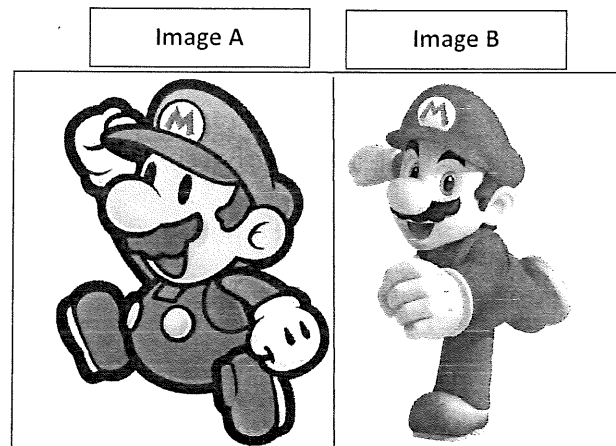c) Differentiate **THREE (3)** characteristics between Image A and Image B in Figure 1. (6 marks)

Figure 1 : Image Character

d) Identify **TWO (2)** purposes of graphical image used. (2 marks)

e) Discuss **TWO (2)** advantages of vector graphic. (4 marks)

f) Consider an image of dimensions 640 × 480 pixels and color depth of 32 bits. Calculate the size of that image file in KB. (4 marks)

g) Explain about anti-aliasing. (2 marks)

QUESTION 3

a) Discuss why audio element is important in multimedia application. (2 marks)

b) Explain the differentiate between amplitude and frequency of sound waves. (4 marks)

c) Give **THREE (3)** examples of effect that can be generated by sound editing software. (3 marks)

d) State **FOUR (4)** factors that determine the file size of digital video. (4 marks)

e) Explain **TWO (2)** advantages using video in multimedia application. (4 marks)

f) Give **ONE (1)** example of lossy compression format for video element. (1 mark)

QUESTION 4

a) Define about animation. (2 marks)

b) Differentiate between stop-motion animation and flip book animation. (4 marks)

c) Explain **THREE (3)** steps in creating 3D animation. (6 marks)

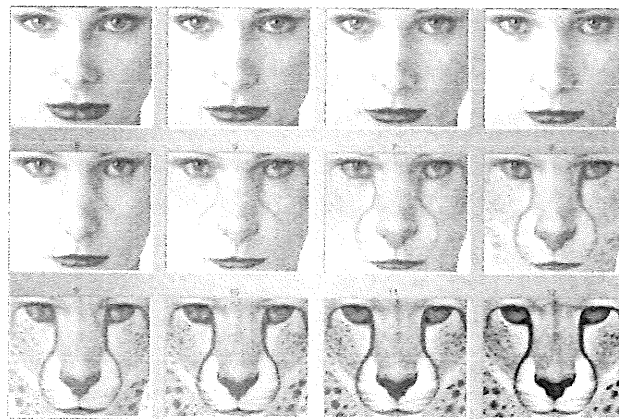d) Identify and explain the type of techniques of animation effect in Figure 2. (2 marks)

Figure 2 : Human face to tiger face

e) Explain **TWO (2)** types of 2D animation. (4 marks)

QUESTION 5

a)   List **THREE (3)** media specialists in a multimedia project team.   (3 marks)

b)   Sketch **THREE (3)** frame of storyboards for a video that shows the story   (6 marks)
     of a spaceship heading to earth and hovering or fly over around the city.
     Then the spaceship was discovered by people in the sky.

--End of question--------------------------------------