

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2021/2022

COURSE NAME

: FUNDAMENTALS OF MULTIMEDIA

COMPUTING

COURSE CODE

: BIM 10103

PROGRAMME CODE

: BIM

EXAMINATION DATE

: JULY 2022

DURATION

: 3 HOURS

INSTRUCTION

: 1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS CONDUCTED VIA CLOSED

BOOK.

3. STUDENTS ARE **PROHIBITED** TO

CONSULT THEIR OWN

MATERIAL OR ANY EXTERNAL

RESOURCES DURING THE

EXAMINATION CONDUCTED VIA

CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Image file size reduction is important to save storage space, speed up the upload, downsand transfer process, and provide a better user experience. Explain THREE (3) strategies to reduce image file size.

O2 Calculate the file size of a 1-minute recording audio sampled at 44.100 Hz. 16-bit stereo (two tracks).

(10 marks)

Q3 Rods and Cones are visual components that contain light-sensitive pigments. List **FIVE** (5) features that distinguish these two components.

(10 marks)

Q4 Questions Q4(a) - O4(c) are based on the following scenario.

You have been requested to upload a video to your faculty's online learning system for one of the coursework projects. Your video resolution is 1980 x 1080 pixels, 24-bit colour, and 30 frames per second, sampled at 48 kHz, 16-bit stereo.

(a) Calculate the file size of a single frame from your video.

(2 marks)

- (b) State the formula for determining the size of the audio component for this video.

 (4 marks)
- (c) Calculate the total file size in Megabyte for this 1-second, uncompressed video.
 (10 marks)
- Q5 State FOUR (4) methods of creating animation. Explain each one.

(12 marks)

Q6 Explain the storyboarding process in producing 3D animation.

(10 marks)

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Q7 List TWO (2) different ways to classify fonts.

(4 marks)

Q8 Select and describe THREE (3) principles of visual design.

(9 marks)

-END OF QUESTIONS -

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