

UNIVERSITI TUN HUSSEIN ONN **MALAYSIA**

FINAL EXAMINATION SEMESTER II **SESSION 2018/2019**

COURSE NAME

INTRODUCTION TO

MULTIMEDIA

COURSE CODE

BIT 10403

PROGRAMME CODE

: BIT

EXAMINATION DATE : JUNE / JULY 2019

DURATION

: 3 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

Q1	Sound is a wave that is generated by vibrating objects in a medium such as		
	A. microwave B. water C. air D. electricity	(2 marks)	
Q2	The effect of high sampling rate includes		
	 A. the reconstructed wave looks different to the original wave B. more sample points, and thus smaller file size C. the reconstructed wave looks closer to the original wave D. less sample points, and thus larger file size 	(2 marks)	
Q3	Which of the following audio file types requires QuickTime Player	?	
	Aogg Bwav Cmp3 Dmov	(2 marks)	
Q4	The following are characteristics of bitmap images EXCEPT		
	A. The image is divided in a gridB. Each cell in the grid stores only one color valueC. Each cell is called a pixelD. Bitmap images are resolution independent	(2 marks)	
Q5	The process of converting vector graphics into pixel-based image	ges is called	
	A. aliasing B. anti-aliasing C. rastering		
	D. rendering	(2 marks)	

TERBUKA

Which of the following is the CORRECT CMY Subtractive Color combination?
 A. Full intensities of cyan + magenta = red B. Full intensities of cyan + yellow = blue C. Full intensities of magenta + yellow = green D. Full intensities of cyan + magenta + yellow = black (2 marks)
Digital photo quality is determined by
A. the number of megapixelsB. the cleanliness of the lensC. the size and quality of the sensorD. the camera's brand
(2 marks)
Standard frame rate for monochrome NTSC video is
A. 24 fps B. 25 fps C. 29.97 fps D. 30 fps (2 marks)
Digital video file size optimization is important because
 A. a large file requires less disk space B. a large file takes longer to transfer C. data transfer can be less expensive D. high data rate may cause smooth playback of the video (2 marks)
A computer animation software which also categorised as multimedia authoring tool is
A. Autodesk 3D StudioMax B. Macromedia Director C. Adobe Animate D. Microsoft PowerPoint (2 marks)

TERBUKA

CONFIDENTIAL

Q11 (a) Explain the definition of Nyquist Theorem.

(4 marks)

(b) Calculate the file size in Megabytes (MB) for a 1 minute CD quality audio with stereo channels.

(8 marks)

(c) Illustrate **FIVE** (5) unidirectional microphone patterns for audio recording.

(10 marks)

Q12 Questions Q12(a) – Q12(c) are based on the given scenario:

As a multimedia freelancer, you have been assigned a task to produce a video clip of a popular song to be uploaded to YouTube. The digital video uses 16-bit colour, 800×640 frame size and 25 frames per second.

(a) Identify the formula to calculate the video file size.

(4 marks)

(b) Calculate the video file size for 1 minute duration.

(12 marks)

(c) Propose **THREE** (3) types of compression methods that are appropriate for uplaoding the video online.

(12 marks)

Q13 Questions Q13(a) - Q13(c) are based on the given scenario:

Your company is going to produce a campaign video to improve teenagers awareness to cyberbullying on social media. You are a video producer who responsible for pre-production, production and post-production phases. The video will use Malaysian identity or local content as the theme for user interface design.

(a) Suggest **THREE** (3) software for video post-production.

(6 marks)

(b) Explain **THREE** (3) user interface design principles that are suitable for local content theme.

(9 marks)

(c) Design FIVE (5) scenes for the video storyboard.

(15 marks)

- END OF QUESTION -

TERBUKA