UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER II
SESSION 2012/2013

COURSE NAME	:	INTRODUCTION TO MULTIMEDIA
COURSE CODE	:	BIT 1043/BIT 10403
PROGRAMME	:	1 BIT
EXAMINATION DATE	:	JUNE 2013
DURATION	:	2 HOURS AND 30 MINUTES
INSTRUCTION	:	ANSWER **ALL** QUESTIONS

THIS QUESTIONS PAPER CONSISTS OF **FOUR (4)** PAGES
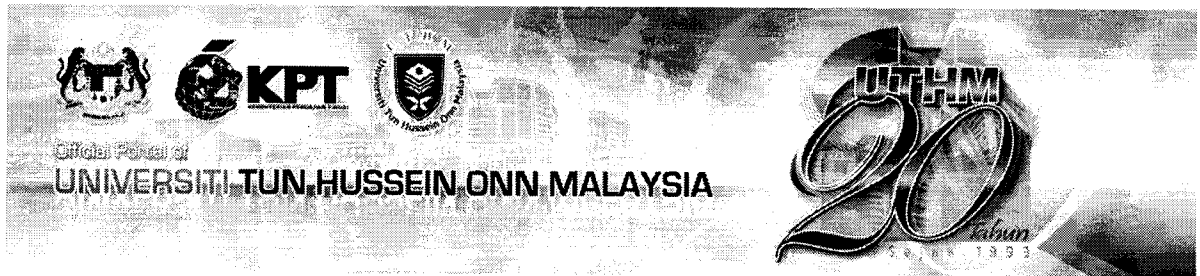
Q1   Give full name for the following acronyms:

(a)   CMYK

(2 mark)

(b)   MPEG

(2 mark)

(c)   MHEG

(2 mark)

(d)   SGML

(2 mark)

(e)   MIDI

(2 mark)

Q2   In hypertext or hypermedia, documentation is important in order to present online information. Disorientation has been recognized as one of the crucial issues in hypertext documentation usability.

(a)   Explain **THREE (3)** functions of hypertext system.

(3 marks)

(b)   Discuss briefly **THREE (3)** factors that make the hypertext documentation become disoriented.

(6 marks)

(c)   Discuss briefly **THREE (3)** effects of disorientation to the user.

(6 marks)

Q3 You have been assigned to design and produce the audio portion of a multimedia project. The audio will be recorded in stereo form and program will be delivered on a DVD-ROM.

(a) Describe **TWO (2)** differences between amplitude and frequency.

(4 marks)

(b) Determine the file size (in bytes) required to produce 3 minutes stereo recording at sampling rate of 44.1 kHz and a 16-bit resolution. Show all steps in your calculation.

(6 marks)

(c) Discuss **FOUR (4)** criteria to be considered in managing and integrating audio in your multimedia project.

(8 marks)

Q4 Based on the following **FIGURE Q4**:

FIGURE Q4

Analyze **FOUR (4)** techniques in which you may apply in Adobe Photoshop software to produce an online banner as depicted in **FIGURE Q4**. Support your answer with illustrations.

(12 marks)

Q5   Given the following scenario:

Ahmad is a multimedia designer for an establish company. His director assigned him to develop an official web page for FIBERAIL, a big fiber optic company in Malaysia.

By using a label diagram, sketch an interface for that company that consist of:

(a)   **THREE (3)** main buttons for Corporate Information, Network Infrastructure and Product & Service in the main menu.

(3 marks)

(b)   company logo and "CONNECTING THE WORLD TO YOU" as their company motto at the suitable place.

(6 marks)

(c)   display area for main menu content.

(3 marks)

(d)   search mechanism using keyword.

(3 marks)

Q6   (a)   Explain briefly **FOUR (4)** main processes involve in developing 3D Animation project.

(8 marks)

(b)   Explain briefly **THREE (3)** methods for mapping in 3D Animation.

(6 marks)

(c)   List **TWO (2)** animation tools.

(2 marks)

Q7   (a)   Explain **THREE (3)** factors which can affect the image quality.

(6 marks)

(b)   Discuss **TWO (2)** types of video compression.

(8 marks)

-END OF QUESTION-