UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION

SEMESTER 2

SESSION 2010/2011

COURSE NAME	:	INTRODUCTION TO MULTIMEDIA
COURSE CODE	:	BIT 1043 / BIT 10403
PROGRAM	:	BACHELOR OF INFORMATION TECHNOLOGY
EXAMINATION DATE	:	APRIL / MAY 2011
DURATION	:	2 HOURS AND 30 MINUTES
INSTRUCTION	:	ANSWER **ALL** QUESTIONS.

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

SECTION A

State whether each of the following statement is **TRUE** or **FALSE**.

Q1 Multimedia presentations often include word processing documents and spreadsheets.

Q2 Multimedia creation is all about creativity and technical skill. Organizational and business management tasks should be kept away from the process to ensure they do not stifle creativity.

Q3 Icons and symbols usually eliminate the need for text labels.

Q4 Some languages use single characters or symbols to express whole words or concepts.

Q5 MIDI files can be as much as 1,000 times smaller than digital audio files.

Q6 MIDI requires some musical talent and skill to create.

Q7 The process of converting unavailable colors to the next nearest color is called *dithering*.

Q8 A single picture element is called a *resolution*.

Q9 Video is compressed and decompressed using a *codec*.

Q10 To prevent flickering, text shown on a television should be thicker than one pixel.

(10 marks)

SECTION B

Q11 (a)   State **FIVE (5)** typical members of a multimedia project team

(5 marks)

(b)   Describe the skills needed for each member of the project team.

(5 marks)

Q12   Illustrate each of the following terms using appropriate sketch. Please include label in the sketch.

a) Serif
b) Cap height
c) Ascender
d) Descender
e) X-height

(10 marks)

Q13 (a)   Describe **FOUR (4)** technical characteristics that determine the size of a digitized audio file.

(8 marks)

(b)   Calculate the file size (in bytes) of a five-second recording sampling at 22 kHz, 16-bit stereo.

(2 marks)

Q14 (a) Describe the representation of bitmap images.

(2 marks)

(b) List **THREE (3)** examples of bitmap file types.

(3 marks)

(c) Describe the representation of vector images.

(2 marks)

(d) State **THREE (3)** examples of vector file types.

(3 marks)

Q15 (a) Define computer *video containers* and *codec's*.

(3 marks)

(b) Identify the relationship between *computer video containers* and *codec's*.

(3 marks)

(c) List **TWO (2)** container file types.

(4 marks)

Q16 Describe **FIVE (5)** tags for multimedia in HTML.

(10 marks)

Q17 (a)   List **FOUR (4)** types of multimedia application.

(4 marks)

(b)   State **ONE (1)** example for each of type listed in **Q17 (a)**.

(4 marks)

(c)   Name **TWO (2)** main categories of kiosk.

(2 marks)