

CONFIDENTIAL



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2014/2015**

**COURSE NAME : FUNDAMENTAL OF
MULTIMEDIA COMPUTING**

COURSE CODE : BIM 10103

PROGRAMME : 1 BIM

EXAMINATION DATE : JUNE 2015 / JULY 2015

DURATION : 2 HOURS 30 MINUTES

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

CONFIDENTIAL

- Q1** (a) Define the terminology of multimedia. (2 marks)
- (b) Describe linear and non-linear structure in multimedia. (2 marks)
- (c) Consider the following scenario.
- Your company has won a tender for developing a multimedia project. As the director of the company, your responsibility is to assign the right person as the project manager.
- Apply your knowledge about multimedia development team to describe **FIVE (5)** key personals and their role. (10 marks)
- (d) Outline **THREE (3)** differences between vector image and bitmap image. Provide your answer in a table. (6 marks)
- (e) (i) Describe mapping operation in computer-generated graphics. (3 marks)
- (ii) State **TWO (2)** types of mapping. (2 marks)
- Q2** (a) NTSC (National Television System Committee) is one of the standards for analogue broadcast color television. Explain **TWO (2)** other sets of standards available. (6 marks)
- (b) List **FOUR (4)** factors which determine the size of a digital video file. (4 marks)

- (c) Using uncompressed high-resolution, size (in KB) of one and half minutes HDTV video that use 64 bit color, 1440 x 1080 resolutions, 33fps with 48 kHz, stereo and 16 bit audio.
- (i) Calculate the video file size (in KiloBytes). (9 marks)
- (ii) Calculate the audio file size (in KiloBytes). (6 marks)
- Q3** (a) Define the following terminologies:
- (i) Sound. (2 marks)
- (ii) Frequency. (2 marks)
- (iii) Clipping. (2 marks)
- (iv) MIDI. (2 marks)
- (b) How to apply vector animation in Flash? (4 marks)
- (c) Demonstrate **FOUR (4)** types of animation. (12 marks)
- Q4** (a) Explain **FOUR (4)** purposes of using Gestalt principles in visual design. (8 marks)
- (b) Analyze **TWO (2)** relations between visual design and usability with an appropriate examples. (8 marks)

- (c) List **FOUR (4)** objects that visual communication can take place. (4 marks)
- (d) Explain the importance of colour role in visual design. (3 marks)
- (e) List **THREE (3)** primitive values in EGMAscript. (3 marks)

- END OF QUESTION -