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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

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

COURSE NAME : DIGITAL AUDIO AND VIDEO TECHNOLOGY  
COURSE CODE : BIM 10203  
PROGRAMME : 1 BIM  
EXAMINATION DATE : AUGUST 2015  
DURATION : 2 HOURS AND 30 MINUTES  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **TWO (2)** PAGES

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- Q1** (a) Define **FIVE (5)** steps involved in digital audio pre-production process. (5 marks)
- (b) Differentiate **TWO (2)** characteristics of *Binaural Recording* and *XY Recording*. Illustrate appropriate figures to support your answer. (8 marks)
- Q2** (a) Using Pulse Code Modulation (PCM) recording, how many bytes of data will be generated by a two minutes digital audio recording with stereo, 16 bits and 22.05 KHz settings? (10 marks)
- (b) Calculate the file size (in MB) of one minute video with 64 bit colour, 800 x 640 resolution, 30 fps, CD quality audio and lossless compression. (12 marks)
- Q3** (a) Explain the concept of *Sound Envelope* using an appropriate figure. (9 marks)
- (b) Compare **THREE (3)** differences between MPEG-2 and MPEG-4. (12 marks)
- Q4** (a) Illustrate a diagram to show the process of converting analogue video to digital video. (12 marks)
- (b) Design a storyboard consists of **FOUR (4)** interfaces of your video project. The storyboard includes main scenes, scripts and multimedia files. (12 marks)

- END OF QUESTION -