



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2010/2011**

COURSE NAME : AUDIO VIDEO PRODUCTION
COURSE CODE : BIT 3233
PROGRAMME : BACHELOR OF INFORMATION
TECHNOLOGY
EXAMINATION DATE : APRIL / MAY 2011
DURATION : 2 HOURS AND 30 MINUTES
INSTRUCTION : ANSWER ALL QUESTIONS.

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

- Q1** Explain **THREE (3)** differences between analog audio and digital audio. (6 marks)
- Q2** Discuss **TWO (2)** types of stereo microphone placement during audio recording using appropriate diagrams. (6 marks)
- Q3** Given the following scenario:
- SAVA Unlimited Berhad has been assigned by FSKTM to produce corporate video with two minutes duration by April 2011. The requirements for the corporate video production includes the use of 32 bit color at 1024 x 768 resolution and the video should be played at 25 fps with a CD audio quality (44.1 kHz, 16-bit).
- (a) Calculate the amount of pixels needed to display the video based on the required resolution. (2 marks)
- (b) Give a formula to calculate the total storage of the corporate video file size. (10 marks)
- (c) Based on the audio quality requirement, determine how a production of a corporate video with CD quality audio can be achieved. (2 marks)
- (d) Suggest **FOUR (4)** strategies to reduce the total storage of the video file size. (4 marks)
- Q4** (a) Discuss the processes to acquire digital videos in post production phase. (10 marks)
- (b) Plan the basic steps of creating a final digital video using any digital video-editing software. (8 marks)
- (c) Give the reasons why it is important to determine the speed of the target audience's CD-ROM or DVD-ROM drive for video playback. (2 marks)
- Q5** Assume a digital video is to be published on a Website.
- (a) Discuss **THREE (3)** common audio files used for embedding digital video on a Web page. (6 marks)
- (b) Suggest suitable HTML tags to embed digital video on a Web page. (14 marks)



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**FINAL EXAMINATION
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COURSE NAME : COMPUTER SECURITY
COURSE CODE : BIT 3133
PROGRAMME : BACHELOR OF INFORMATION
TECHNOLOGY
EXAMINATION DATE : APRIL/MAY 2011
DURATION : 2 ½ HOURS
INSTRUCTION : ANSWER **ALL** QUESTIONS.

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

- Q1** (a) Computer security consists of maintaining **THREE (3)** main fundamental objectives. Describe each of these objectives. (6 marks)
- (b) Explain **FOUR (4)** threats that exploit vulnerabilities to the assets of a computing system. (14 marks)
- Q2** (a) Encrypt a message, CAN WE MEET TONIGHT AT TEN using keyword, MESSAGE. Demonstrate your work with appropriate illustrations. (5 marks)
- (b) A ciphertext message, geiwev gmtliwv evi iewc xs fvieo was encrypted using Caesar Cipher method. Decrypt the ciphertext to reveal its plaintext message. Demonstrate your work with appropriate illustrations. (5 marks)
- (c) Based on **Q2(b)**, discuss the weaknesses of Caesar Cipher from cryptanalysis point of view. (10 marks)
- Q3** (a) Explain **TWO (2)** differences between virus and worms. (8 marks)
- (b) Analyze **FOUR (4)** phases in a virus life cycle. (12 marks)
- Q4** Alice works as a programmer for a large software company. She writes and tests utility programs such as compilers. Her company operates two computing shifts: during the day, program development and online application are run while at night, batch production jobs are completed. Alice has access to workload data (company computer resources workload) and learns that adding programming work during the night shift would not adversely affect performance of computers to other users.
 Alice comes back after normal hours to develop program to manage her own business. She uses very minimal resources of the computer and very few expendable supplies such as printer papers.
- Based on the case study above, explain if Alice's behavior is ethical or unethical? Justify your answer by giving value issues and analysis. (20 marks)