



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2016/2017**

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COURSE NAME : MULTIMEDIA SYSTEM AND APPLICATION

COURSE CODE : BIM 20404

PROGRAMME CODE : BIM

EXAMINATION DATE : JUNE 2017

DURATION : 2 HOURS AND 30 MINUTES

INSTRUCTION : ANSWER ALL QUESTIONS

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

MAKING SURE YOU HAVE ALL THE
NECESSARY INFORMATION
FOR THE EXAMINATION
PLEASE CHECK THE INFORMATION
ON THE QUESTION PAPER CAREFULLY

- Q1** TONTON.com.my is a Malaysian video portal owned by Media Prima Berhad which provides the best local, Asian and International television drama series through online.
- (a) Explain the category of multimedia network application for TONTON. (4 marks)
 - (b) State the major problem occurs during the process of video streaming in TONTON. (2 marks)
 - (c) Draw a diagram to explain how the problem in **Q1(b)** occurs during the process of video streaming in TONTON. (4 marks)
 - (d) Name a protocol used for streaming video and audio. (2 marks)
 - (e) Describe **FOUR (4)** basic operations of protocol in **Q1(d)**. (8 marks)

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Q2 Questions **Q2(a)**-**Q2(d)** are based on **Figure Q2**.

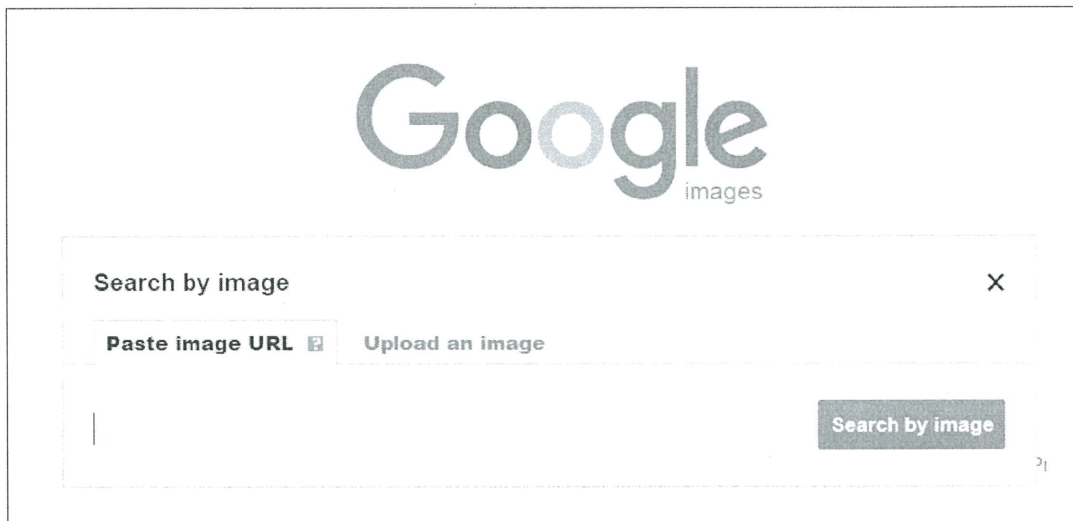


Figure Q2

- (a) Analyze **ONE (1)** appropriate image retrieval method used in **Figure Q2**. (4 marks)

- (b) In your opinion, give **THREE (3)** reasons why Google provide an alternative search engine using image instead of keyword indexing. (6 marks)

- (c) Give **TWO (2)** possible features used in **Figure Q2** for retrieving the content of the image. (4 marks)

- (d) Predict **THREE (3)** possible results that will be produced using search mechanism in **Figure Q2**. (6 marks)

- Q3**
- (a) Differentiate between Steganography, Cryptography and Digital Watermarking. (6 marks)

 - (b) Describe **TWO (2)** message carriers for steganography. (4 marks)



Q4 Questions **Q4(a)-Q4(c)** are based on the following case study:

As a Project Manager, you are being assigned a new project regarding an interactive mobile learning application for kindergarten with the theme of "Science for Kids".

- (a) Suggest **ONE (1)** type of Computer Assisted Learning (CAL) to be applied in developing this title. Justify your answer. (4 marks)

- (b) Propose an appropriate multimedia authoring software to be used in developing the proposed application. Justify your answer. (2 marks)

- (c) Analyze any **TWO (2)** multimedia learning design principles to be considered in this project. (4 marks)

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(d) Draw a content structure to analyze the content and learning objective of the proposed application based on answer in **Q4(b)**.
(8 marks)

(e) Draw any **TWO (2)** interfaces for the proposed application based on the answer in **Q4(c)** and **Q4(d)**.
(12 marks)

-END OF QUESTION -

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