



UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2017/2018**

COURSE NAME : **COMPUTER & MULTIMEDIA
TECHNOLOGY**

COURSE CODE : **DAE 10403**

PROGRAMME CODE : **DAE**

EXAMINATION DATE : **DECEMBER 2017 / JANUARY 2018**

DURATION : **3 HOURS**

INSTRUCTION : **SECTION A: ANSWER ALL QUESTIONS.
SECTION B: ANSWER ANY TWO (2)
QUESTIONS ONLY.**

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES

SECTION A

- Q1** (a) Define the meaning of LAN. (3 marks)
- (b) In term of geographical area, explain the differences of network designed; LAN, MAN and WAN. (3 marks)
- (c) Explain any **three (3)** components of LAN. (6 marks)
- (d) Unshielded Twisted Pair (UTP) cable is the primary wire type for telephone usage and is very common for computer networking.
- (i) List **two (2)** types of UTP cable arrangement and the EIA/TIA standard that can be used. (4 marks)
- (ii) Identify when to use those type of the UTP cable arrangement. (2 marks)
- (iii) A UTP cable is tested using network cable tester and the result is as shown in **Figure Q1(d)**. Deduce what is wrong with the connection. (2 marks)
- Q2** Interface is a method widely used in multimedia systems to enable users to access and explore multimedia systems effectively.
- (a) List **five (5)** principles for a good user interface design. (5 marks)
- (b) Based on the answers in **Q2(a)**, explain the importance of any **three (3)** principles listed. (6 marks)
- (c) Adobe Photoshop CC2015 is one of multimedia software that provides interface in their application.
- (i) **Figure Q2(c)(i)** shows one of the features available in Adobe Photoshop. Explain the function of layer. (2 marks)
- (ii) Based on **Figure Q2(c)(ii)**, explain the specific method to get that result. (5 marks)
- (iii) State **two (2)** file format can be saved your job in Adobe Photoshop. (2 marks)

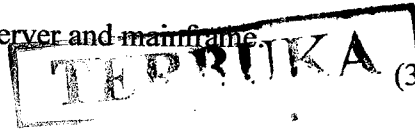
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- Q3** (a) Differentiate the distinctive features between web page and web browser. (5 marks)
- (b) As a web developer, you are assigned to develop a website to promote a robot competition organized by Centre for Diploma Studies. Discuss the principles required in the development of the promotional website. Clarify the items needed to be included in the website by stating the examples. (15 marks)

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SECTION B

- Q4** (a) List down **five (5)** main elements of multimedia. (5 marks)
- (b) Explain the importance of each elements listed in **Q4(a)**. (15 marks)
- Q5** Your company is requesting you to produce a video showcasing products for marketing purpose.
- (a) Propose **two (2)** basic hardware devices. (2 marks)
- (b) Briefly explain the function of each devices listed in **Q5(a)**. (6 marks)
- (c) Propose **three (3)** software needed to produce the video. (3 marks)
- (d) Explain the reason in selecting the software in **Q5(c)** to support your justification. (9 marks)
- Q6** (a) Tabulate **three (3)** differences between primary storage and secondary storage. (3 marks)
- (b) Explain the significant difference between server and mainframe. (3 marks)
- (c) List down **three (3)** advantages of computer to mankind. (3 marks)
- (d) Explain the function of kernel in the operating systems. (4 marks)
- (e) System administration practices play a key role in network security. List down **two (2)** commonly recommended practices in network security. (4 marks)
- (f) Control unit is a part of the central processing unit (CPU). Explain the specific function of the control unit in CPU. (3 marks)



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- Q7** (a) Illustrate **three (3)** basics topologies of LAN. (3 marks)
- (b) State **three (3)** types of WAN switching. (3 marks)
- (c) Explain the differences of Domain Naming Address (DNS) and Internet Protocol (IP) Address in a computer networks. (4 marks)
- (d) Based on the concept of internet, intranet and extranet as showed in **Figure Q7(d)**, clarify and propose a practical and relevant system respectively to help and enhance a student's daily life. (10 marks)

-END OF QUESTIONS-

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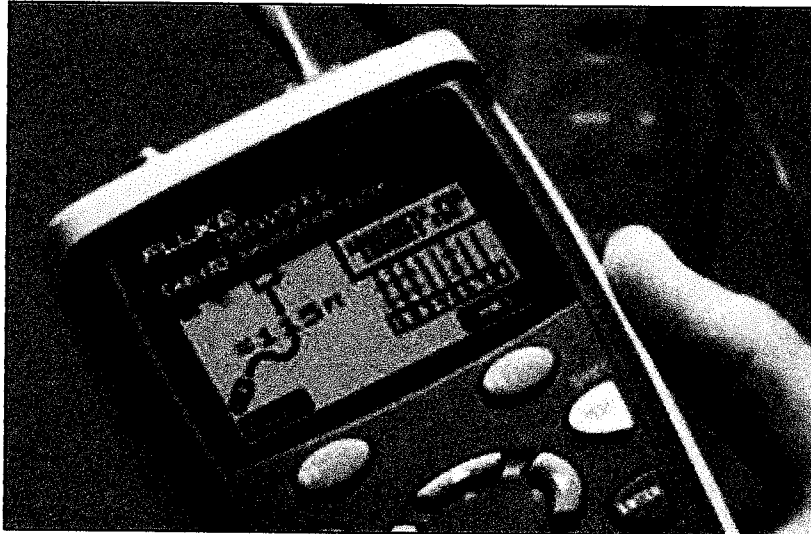


Figure Q1(d)

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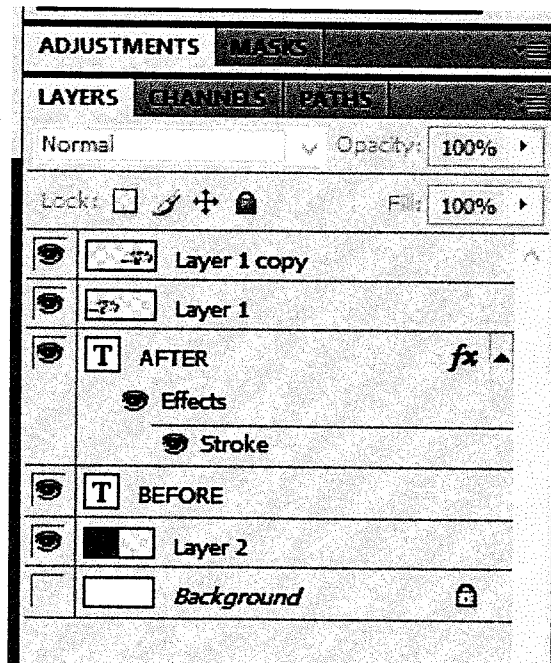


Figure Q2(c)(i)

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Figure Q2(c)(ii)

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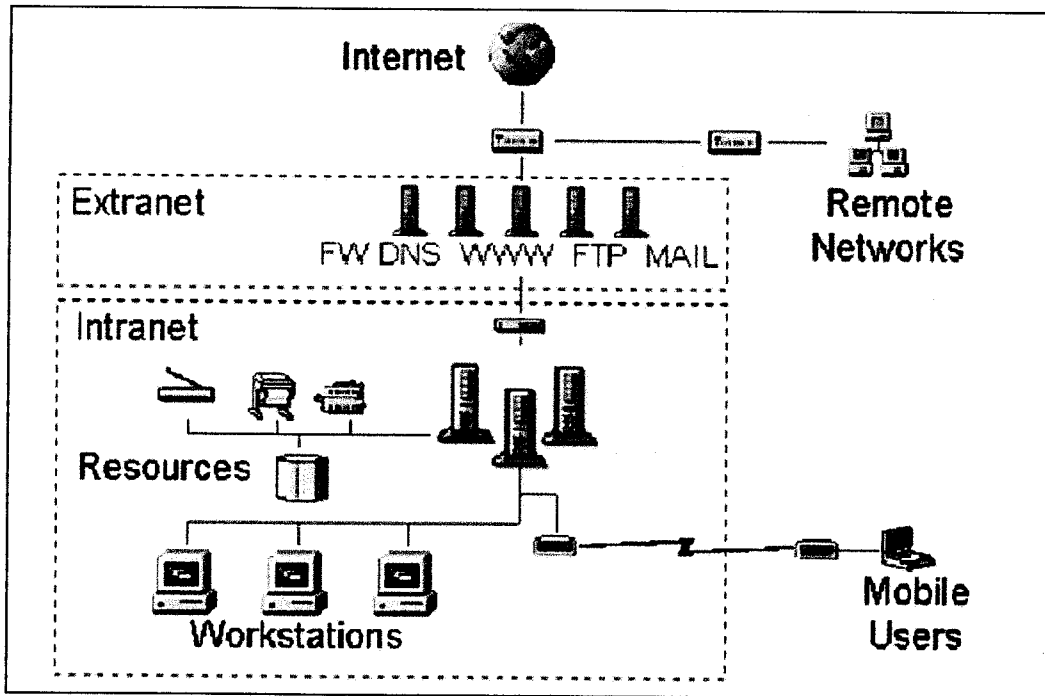


Figure Q7(d)