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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : COMPUTER TECHNOLOGY AND
MULTIMEDIA

COURSE CODE : DAU 16103

PROGRAMME : 1DAU

EXAM DATE : JUNE 2017

DURATION : 2 HOURS AND 30 MINUTES

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSIST OF THIRTEEN (13) PAGES

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PART A (40 QUESTIONS)

- Q1** Computer is an electronic device operating under the control of instructions stored in its own memory.
- (A) True
(B) False
- Q2** Information Technology is important because it brings about the fusion of several important industries dealing with computers, telephones, televisions and various handheld devices.
- (A) True
(B) False
- Q3** Nowadays websites is the best medium to share information across the world, so no need to think about securities since all were well provided.
- (A) True
(B) False
- Q4** A system that uses communications equipment to connect computers and their resources is called as Network.
- (A) True
(B) False
- Q5** In general of computer system the address and data BUS crucially needed in order to send the data to the destination in precisely.
- (A) True
(B) False
- Q6** "Ping" command can be used in order to check the existing of network and to create files in computer system.
- (A) True
(B) False

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- Q7** Computer software consist of System Software, Application Software and User Requirement.
- (A) True
(B) False
- Q8** Communication device is the hardware component that enables a computer to send and receive data, instruction and information to and from one or more computers.
- (A) True
(B) False
- Q9** Input Devices, System Unit, Output Devices, Storage and Communication Device are the components of computer.
- (A) True
(B) False
- Q10** Processor, Memory, Adapter Card, Ports, Power Supply and Drive Bay are the major component inside a system unit.
- (A) True
(B) False
- Q11** Choose the correct statement to define Information and Communication Technology (ICT).
- (A) Information and Communication Technology is composed of three main components of a computer, Internet and networking.
(B) Information and Communication Technology (ICT) is any communication facilities and computer-based applications.
(C) Information and Communication Technology (ICT) is a technology that is needed to process the information using electronic equipment and software applications to transfer, store, send and receive data.
(D) Information and Communication Technology (ICT) is a technology used by people to improve their lives.

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Q12 Based on statement below:

H is a kind of computer application that copying itself (million times) in order to make computer running slow. What is **H**?

- (A) Spyware
- (B) Virus
- (C) Ransomware
- (D) Worm

Q13 Explain why we need to back up our data.

- I To ensure that our data can still be used if the original is corrupted
- II To ensure our files, program or disk that can be used if the original source is lost, damage or destroyed.
- III To prevent our files or program from malicious software
- IV To protect our files from viruses.

- (A) I and II
- (B) I and III
- (C) I, II and III
- (D) I, II and IV

Q14 Based on statement below, it refers to

Known as memory, volatile and stores data during and after processing.
Dikenali sebagai ingatan, meruap dan menyimpan data semasa dan selepas pemprosesan.

- (A) Control Processing Unit (CPU)
- (B) Hard Disk
- (C) RAM
- (D) SSD

Q15 Identify which of the following are the types of volatile memory.

- (A) Cache
- (B) Hard Disk
- (C) CD or DVD
- (D) SSD Drive

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Q16 HTML is stand for Hypertext Markup Language. Programmer uses it to develop website so which code below are used for “*heading*”.

- (A) <head></head>
- (B) <html></html>
- (C) <h1></h1>
- (D) <heading></heading>

Q17 Layers in Adobe Photoshop very important to designer because its shows _____.

- (A) Blind Layer
- (B) Layer Slice
- (C) Layer Priority
- (D) Background Layer

Q18 Indicate the element in multimedia technology.

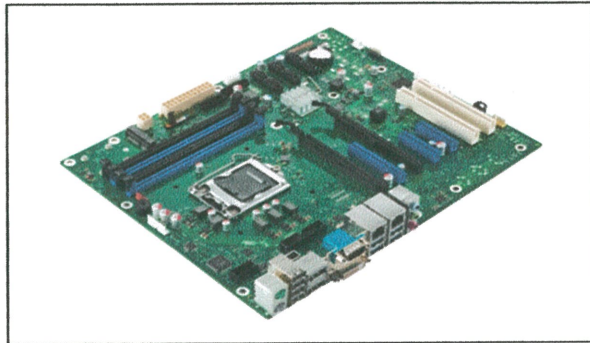
- I Multimedia Object
 - II Text
 - III Video
 - IV Image
- (A) I, II and III
 - (B) I, II and IV
 - (C) I, III and IV
 - (D) II,III and IV

Q19 All the statements below are **TRUE** about Operating System **EXCEPT**.

- (A) Without Operating System The hardware can't be operated
- (B) Windows, Linux, MAC is kind of Operating System
- (C) Linux Operating System can be modified and open source
- (D) Two Operating System can't be installed in one computer

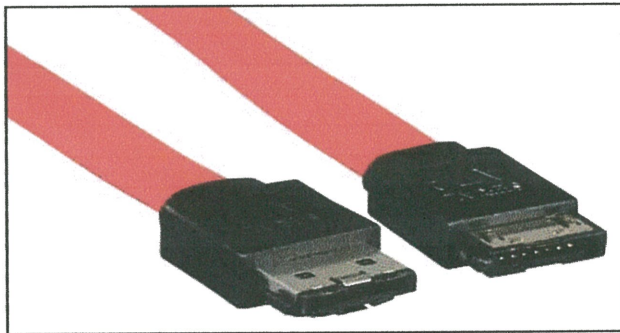
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Q20 The diagram below shows a computer motherboard. Define an expansion slot.



- (A) An opening, or socket, on the motherboard that can hold an adapter card.
- (B) Memory chips that store permanent data and instructions
- (C) Memory slots on motherboard hold memory modules.
- (D) Memory chips that can be read from and written to by processor

Q21 Based on the diagram below, the SATA cable is usually connect to a.



- (A) Hard Disk
- (B) Modem or Router
- (C) Printer
- (D) Mouse and Joystick

Q22 Grey Hat Hacker is defined as _____.

- (A) Refers to a computer hacker or computer security expert who may sometimes violate laws or typical ethical standards, but does not have the malicious intent typical of a black hat hacker
- (B) Refers to a computer hacker or computer security expert who never violate laws or typical ethical standards and purposely to learn something new
- (C) Refers to a student of computer science expert who may sometimes violate laws or typical ethical standards, but just for fun
- (D) Refers to a computer hacker or computer security expert who may never violate laws or typical ethical standards, but does have the malicious intention

Q 23 Based on the figure below , identify the operating system:



- (A) Mac OS
- (B) Linux
- (C) Android
- (D) iOS

Q24 This symbols  is referred to.

- (A) USB port
- (B) Serial port
- (C) Parallel port
- (D) FireWire port

Q25 Identify the hardware based on statement below:

“Main circuit board in system unit. Contains adapter cards, processor and memory chips”.

This can be referred to

- (A) Soft board
- (B) Motherboard
- (C) Keyboard
- (D) Memory

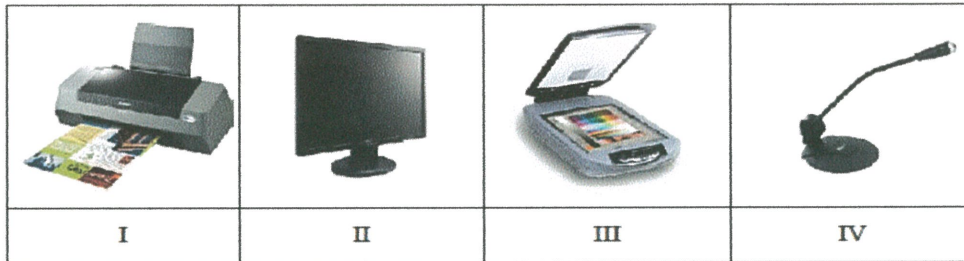
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Q26 Software that boots up a computer, provides a user interface, manages data and programs, manages memory and configures devices. The statement refer to.

- (A) Open source software
- (B) Operating system
- (C) Application software
- (D) Utility program

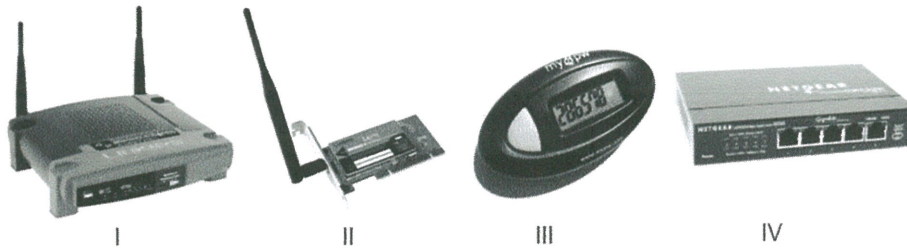
Q27 Figure below shows four pictures of input and output devices.



Identify the output devices.

- (A) I and II
- (B) I and III
- (C) II and IV
- (D) III and IV

Q28 Indicate of the following devices are required for computer network.



- (A) I, II and III
- (B) I, II and IV
- (C) II, III and IV
- (D) I, II, III and IV

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- Q29** This system software is embedded in windows and installed in a computer to provide a communication between the computers on the network. It's called Internet Protocol (IP) address and why needs IP address?
- (A) To identify computer in network segmentation
 - (B) To address which switch to connect in network
 - (C) To define the right Gateway
 - (D) To create good path in network routing protocol
- Q30** Utility programs also known as _____
- (A) Task programs
 - (B) Service programs
 - (C) Batch programs
 - (D) Output programs
- Q31** A company regularly updates a user reference guide. Some staff are confused about which of the printed document is the most current. Clarify what feature should be included in the reference guide to eliminate this confusion.
- (A) Data printed
 - (B) Version number
 - (C) Authors name
 - (D) Copyright information
- Q32** Determine which of the following would indicate that motherboard battery has failed
- (A) Operating system passwords are lost
 - (B) Files on the hard disk are lost and corrupted
 - (C) Hardware settings, including virtual memory reverts to default values
 - (D) Hardware settings, including the current date and time reverts to default values
- Q33** Describe why would a switch be used in a network in preference to a HUB
- (A) To reduce the network traffic
 - (B) To prevent the spread of all viruses
 - (C) To connect a computer directly to the Internet
 - (D) To manage password security at the work station

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Q34 In networking terminology UTP means

- (A) Unshielded Twisted pair
- (B) Ubiquitous Telephone port
- (C) Uniformly Terminating port
- (D) Unshielded T-connector port

Q35 Which of the following are the impacts of ICT on society.

- I Social Problem
- II Cyber Bullying
- III Fasten the information sharing
- IV Copyright Violation

- (A) I, II and III
- (B) I, II and IV
- (C) II, III and IV
- (D) I, II, III and IV

Q36 Computer can be attacked in various ways. Listed here are some of common signs of infected computer.

- I An unusual message or graphical image display on the computer monitor.
- II The available memory is less than what should be available.
- III Unexpected hidden files.
- IV System slow processing.

- (A) I, II and III
- (B) I, II and IV
- (C) I, III and IV
- (D) I, II, III and IV

Q37 Identify which one of the following statements is **not true** with the term.

- (A) **Virus:** Able to clone itself. Can spread through various mediums. Computers that are infected computers often corrupt files when opened.
- (B) **Worm:** Self-replicating and only infected via internet.
- (C) **Logic bomb:** is the code that accidentally included in the software system that will work with the aim of damaging the computer when the conditions are met.
- (D) **Trojan Horse:** a program that appears useful. Usually the application software in a hidden but contains other programs that may damage the computer.

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- Q38** Describe why is it important to have good password practices for your computer
- (A) To extend computer lifespan
 - (B) To protect from digital intrusion
 - (C) To guard from malicious software
 - (D) To ensure operating system run efficiently
- Q39** While you are surfing internet on social networking, you saw one of your friends insulting other user with nasty comment. Describe your action.
- (A) Just ignore it because it is not your business
 - (B) Call police and lodge a report
 - (C) Just remove your friend from your friend list
 - (D) Advices him and make sure he apologize and remove the nasty comment
- Q40** You are in charge of the internet in your home. Find the best way to ensure that your sibling do not visit inappropriate websites.
- (A) Install parental control and filtering software.
 - (B) Communicate and install values of using the internet.
 - (C) Record and track of all your siblings browsing history.
 - (D) Allow your siblings to surf internet during certain period of time.

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PART B (3 QUESTIONS)

Q 41 Multimedia is emphasizing on the integration of computer controlled of text, graphics, audio, video, animation and any other media where every variety of information can be represented, stored and processed digitally.

(a) Explain audio, video and text according to multimedia concept and describe why they were used in multimedia applications development.

(6 marks)

(b) State the differences between linear and non-linear multimedia.

(4 marks)

(c) List **FOUR (4)** graphic formatting and its acronyms that usually being used in multimedia graphic files.

(4 marks)

(d) Adobe Photoshop and GNU Image Manipulation Program (GIMP) are popular photo editing software's. By your point of view, which one is better and gives your justification.

(6 marks)

Q 42 Content Management System (CMS) is very useful nowadays and it helps developer to create a website with optimal time and low cost.

(a) Define the CMS.

(4 marks)

(b) Define and explain **FOUR (4)** advantages of using CMS.

(8 marks)

(c) List **FOUR (4)** Open Source Web Servers.

(4 marks)

(d) Define the web session. Describe a situation when using web session and how session could enhance user security.

(4 marks)

Q 43 The Information Technology and Multimedia Technology are so related to each other. But, both have different meaning.

(a) Explain what the meaning of Information Technology and Multimedia Technology is.

(4 marks)

(b) The information security awareness is so important in our community. But the level of awareness is still not encouraging, why this happened and give **FOUR (4)** suggestion to increase the awareness among the youth.

(8 marks)

(c) State **FOUR (4)** network topologies in computer networking and elaborates each topology on why it was constructed.

(8 marks)

- END OF QUESTION -

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