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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : COMPUTER TECHNOLOGY AND
MULTIMEDIA

COURSE CODE : DAU 16103

PROGRAMME : 1DAU

EXAM DATE : DECEMBER 2014/ JANUARY 2015

DURATION : 2 HOURS AND 30 MINUTES

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSIST OF TWELVE (12) PAGES

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PART A (40 QUESTIONS)

- Q1** Information Technology is the integration of computers, communication equipment and other technology used in computer-based information system.
(A) True
(B) False
- Q2** Multimedia refers to any type of application or presentation that involves more than one type of media, such as text, graphics, video, animation, and sound.
(A) True
(B) False
- Q3** You can share information by creating Web pages or posting photos on a photo community.
(A) True
(B) False
- Q4** The text color in a presentation should contrast with the background color.
(A) True
(B) False
- Q5** Internet is a Worldwide collection of networks that connects millions of computers.
(A) True
(B) False
- Q6** A smaller version of an image is called a thumbnail.
(A) True
(B) False
- Q7** Computer software consist of System Software and Application Software.
(A) True
(B) False

- Q8** A hyperlink can be added to your presentation and then used to go to a variety of locations for example, a web address, an e-mail address, a custom show or document.
- (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** Input, process, output, storage and communication is the information processing cycle.
- (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.
- Q12** What is computer literacy?
- (A) User's guide that accompany applications software.
 - (B) Technical research conducted by colleges and universities.
 - (C) A basic knowledge of computers and their use.
 - (D) Books stored in a library on computer related subjects.

- Q13** Why do 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** What tool the statement below 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) Operating System
- Q15** Which of the following below are the types of storage memory?
- (A) Primary
 - (B) Secondary
 - (C) Primary & Secondary
 - (D) Tetris
- Q16** Case that contains electronic components of the computer used to process data is called?
- (A) System Unit
 - (B) CPU
 - (C) Motherboard
 - (D) Bus
- Q17** A set of transistors in a processor where data is stored temporarily while making calculations involving that data is called?
- (A) Register
 - (B) CPU
 - (C) Motherboard
 - (D) Bus

Q18 What the benefit by using Electronic Banking?

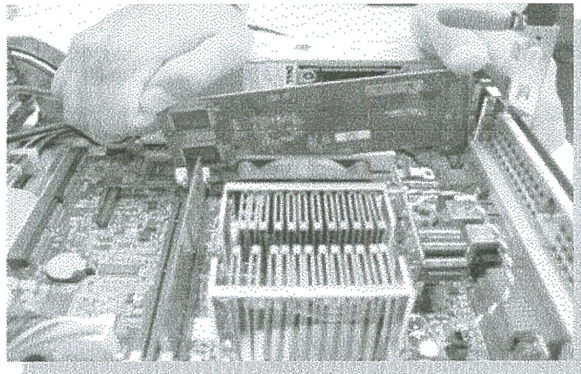
- I 24 hour service
- II Electronic Fund Transfer
- III Electronic Cash Deposits
- IV Electronic Loan Applications

- (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 RAM **EXCEPT**

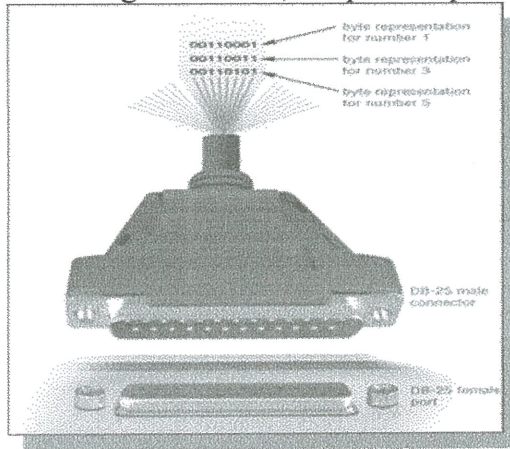
- (A) Data can be read or written.
- (B) The programs and data are lost when the computer is powered off.
- (C) The contents can be accessed and read but cannot be changed.
- (D) It is also known as a working memory.

Q20 The diagram below represents an expansion slot and adapter cards. What is 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 parallel port is usually connect to a?

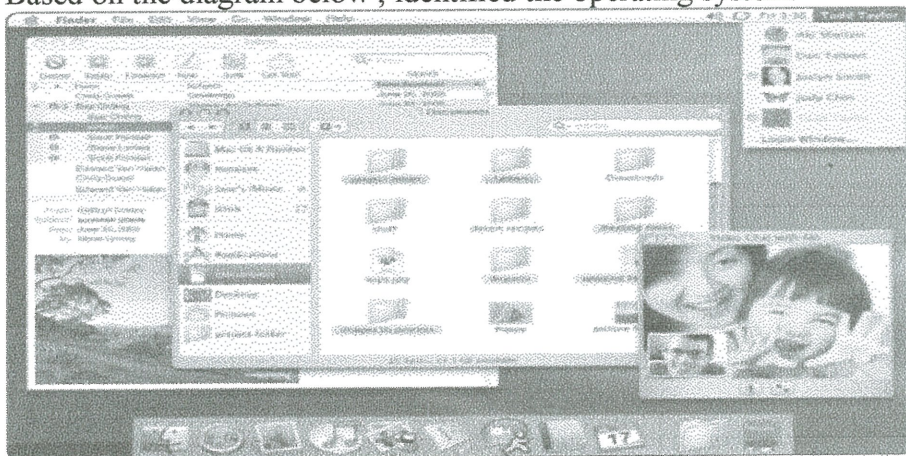


- (A) Projector
- (B) Modem
- (C) Printer
- (D) Keyboard

Q22 Define Cyber law.

- (A) any laws relating to electronic and technology industry.
- (B) any laws relating to industry and the Internet communications.
- (C) any laws relating to technology and the Internet communications.
- (D) any laws relating to protecting the internet and other online communication technology.

Q23 Based on the diagram below , identified the operating system.



- (A) Mac OS
- (B) Symbian
- (C) Google Android
- (D) iOS

Q24



This symbol is referred to.

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

Q25

“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

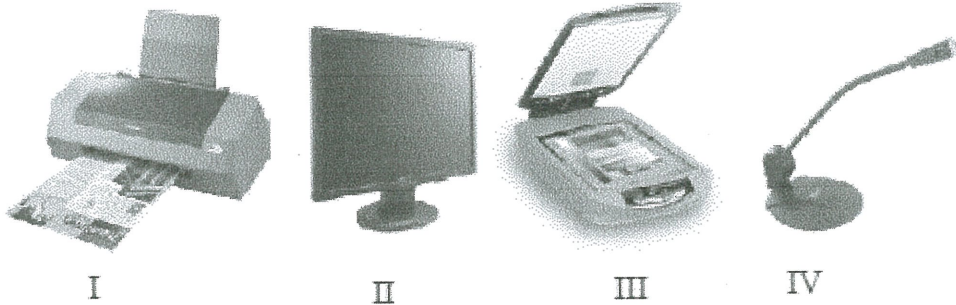
Q26

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

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

Q27

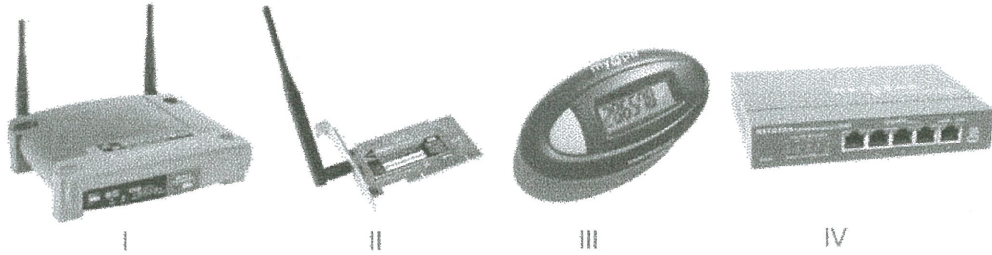
Figure below shows examples of input and output devices.



Identify the output devices.

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

Q28 Which 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

Q29 This device is installed in a computer to provide a connection between the computer and the network.

- (A) Network Interface Card
- (B) Internet Explorer
- (C) Gateway
- (D) Modem

Q30 Utility programs also known as.

- (A) delete programs
- (B) service programs
- (C) programming languages
- (D) output devices

Q31 A company regularly updates a user reference guide. Some staff are confused about which of the printed document is the most current. 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 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** In which type of streaming multimedia file is delivered to the client, but not shared?
- (A) real-time streaming
 - (B) progressive download
 - (C) compression
 - (D) none of the mentioned
- Q34** Multimedia system require hard real time scheduling
- (A) to ensure critical tasks will be serviced within timing deadlines
 - (B) to deliver the media file to the client
 - (C) to minimize the delay
 - (D) for security
- Q35** Which one of the following is the characteristic of a multimedia system?
- (A) high storage
 - (B) high data rates
 - (C) both (a) and (b)
 - (D) none of the mentioned
- Q36** Viruses attack computer in various ways. Listed here are some of more common signs of virus infection.
- I An unusual message or graphical image display on the computer monitor.
 - II The available memory is less than what should be available.
 - III Update notification appear.
 - IV A file becomes corrupted.
- (A) I, II and III
 - (B) I, II and IV
 - (C) I, III and IV
 - (D) II, III and IV

- Q37** Real time streaming protocol is used.
- (A) to control streaming media servers
 - (B) for establishing and controlling media sessions between endpoints
 - (C) to provide real time control of playback of media files from the server
 - (D) all of the mentioned
- Q38** 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 driving, your friend asks whether he can borrow your mobile phone to send a rumor via text messaging to other friend .What should you do?
- (A) Tell your friend no because it isn't funny
 - (B) Pastik Pull over in a save place and send the rumor on his behalf
 - (C) Decline the request because others might think you sent the rumor
 - (D) Lend him the phone but make sure ho show you're the rumor before he send it
- Q40** You are in charge of the internet in your home. What is 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.

PART B (3 QUESTIONS)

Q1 In 1994, Tim Berners Lee founded an organization – the World Wide Web Consortium (W3C) and the primary goals are to make the web universally accessible. This is the foundation of the Internet. Since that, a lot of new web technologies have been emerge. Nowadays, we have the new web technologies called Web 2.0.

- (a) Explain web 2.0 and describe the key features of Web 2.0. (6 marks)
- (b) State the difference between Web 1.0 and Web 2.0. (6 marks)
- (c) Give **FOUR(4)** example of web applications that can be considered as Web 2.0. (4 marks)
- (d) Google's Android and Apple's iOS are the most popular mobile operating systems. Based on your opinion, which one is better and give your justification. (4 marks)

Q2 Joomla! is an award-winning and is the most popular Content Management System (CMS).

- (a) Define 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) What is a cookie? Describe a situation when using a cookie or cookies could enhance user experience. (4 marks)

Q3 Multimedia refers to content that uses a combination of different content forms. This contrasts with media that use only rudimentary computer displays such as text-only or traditional forms of printed or hand-produced material.

(a) Multimedia includes a combination of text, audio, still images, animation, video, or interactivity content. Please explain each of it?
(8 marks)

(b) Multimedia finds its application in various areas including, advertisements, art, education, entertainment, engineering, medicine, mathematics, business, scientific research and spatial temporal applications. State **TWO** examples of multimedia application for each area.
(8 marks)

(c) What is optical disc? How it is different from magnetic optical disk?
(4 marks)

- **END OF QUESTION** -