

Student name:

ID:

Faculty of Computer Studies

TU170

Learning Online

Final Examination

Fall 2012-2013

Form: A

Date: / /2013

Number of Exam Pages: (9)	Time Allowed: (2) Hour
----------------------------------	---------------------------------

Instructions:

- 1) This exam has 2 parts:
 - Part 1: Multiple Questions (30 marks)
 - Part 2: Short Essay Questions (20 marks)
- 2) Write your student ID, name and section number in this page.
- 3) All parts should be answered.

Part 1: Find the most correct answer, and then put its letter in the table below
(30 marks)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

- 1) Information about how often you visit a Web site can be stored in a _____ on your hard drive.
A. data file
B. history file
C. cache
D. cookie
- 2) With these systems, input and output devices are located outside the system unit.
A. Desktop systems
B. Personal digital assistants
C. Smartphones
D. Laptop computers
- 3) Which of the following is not a popular mobile OS?
A. Simian OS
B. BlackBerry OS
C. iPhone OS
D. Android
- 4) The greatest capacity for data transmission happens in _____ devices.
A. voiceband
B. medium band
C. broadband
D. mega-band

- 5) After a period of time, a hard disk becomes highly
A. fragmented
B. contiguous
C. sectored
D. disbursed
- 6) Which of the following is not malware?
A. Trojan horses
B. Viruses
C. Worms
D. Spy Doctor
- 7) A byte is formed by a group of
A. 4 bits
B. 8 bits
C. 12 bits
D. 16 bits
- 8) The _____ is the central node for all the other nodes connected to the network.
A. client
B. server
C. switch
D. gateway
- 9) Which of the following is not a binary code?
A. EBCDIC
B. ASCII
C. CISC
D. Unicode
- 10) Which of these is not an example of solid state storage?
A. DVDs
B. SSDs
C. Flash memory cards
D. USB drives

- 11) A computer can become infected with viruses in the following ways, except:
- A. by opening attachments to e-mail messages.
 - B. by downloading software from the Internet.
 - C. by downloading files from the Web.
 - D. by creating a new folder on your computer.**
- 12) Basic applications include all of the following except
- A. web authoring**
 - B. word processors
 - C. spreadsheet
 - D. database management systems
- 13) Which among the following is a fraudulent or deceptive act designed to trick individuals into spending time or money for little or no return?
- A. Malicious program
 - B. Internet scam**
 - C. Theft
 - D. Data manipulation
- 14) In a microcomputer system, the CPU is contained on a single chip called the
- A. semiconductor
 - B. ALU
 - C. microprocessor**
 - D. Control Unit
- 15) If the majority of the processing power is centralized in one large computer and the nodes connected to it have little or no processing capability, it is called a _____ network.
- A. hybrid
 - B. terminal**
 - C. peer-to-peer
 - D. hierarchical

- 16) This is a character-effect.
- A. Find and replace
 - B. Numbered list
 - C. Color**
 - D. Bullets
- 17) Storage that retains its data after the power is turned off is referred to as
- A. volatile storage
 - B. sequential storage
 - C. direct storage
 - D. nonvolatile storage**
- 18) One way to improve the storage capacity of a hard disk is to
- A. format often
 - B. use file compression**
 - C. increase memory
 - D. use Linux
- 19) Tablet PCs and PDAs use a
- A. joy stick
 - B. light pen
 - C. stylus**
 - D. mouse
- 20) A device that protects against a sudden increase in electrical power is a(n)
- A. anti-spiker
 - B. voltage regulator
 - C. network terminator
 - D. surge protector**
- 21) In a spreadsheet, a cell is defined as the
- A. intersection of a table and a row
 - B. intersection of a table and a column
 - C. intersection of a row and column**
 - D. intersection of a column and a record

- 22) This enabled graphics, animation, sound, and video to be added to the Internet.
- A. Web browser
 - B. URI
 - C. Web**
 - D. Sharewares
- 23) The most common way to access the Internet is through
- A. an Internet service provider (ISP)**
 - B. an instant messaging (IM) service
 - C. an application service provider (ASP)
 - D. Facebook
- 24) Flash memory cards are a type of what kind of secondary storage?
- A. Optical disks
 - B. Hard drives
 - C. High-definition disks
 - D. Solid-state storage**
- 25) This type of network topology does not use a specific physical layout.
- A. Hybrid
 - B. Hierarchical
 - C. Mesh**
 - D. Tree
- 26) This type of keyboard uses a touch screen as the input device.
- A. PDA keyboard
 - B. Wireless keyboard
 - C. Traditional keyboard
 - D. Virtual keyboard**
- 27) Which of the following types of character recognition systems is used for standardized multiple-choice testing?
- A. UPC
 - B. MICR
 - C. OMR**
 - D. OCR

- 28) Which technology allows users to shift their desktop computing activities to computers on the Internet?
- A. distributed databases
 - B. cloud computing**
 - C. handheld computers
 - D. solid-state storage
- 29) Which of the following is not a utility to ensure backup and adequate performance of an internal hard disk?
- A. Backup
 - B. Disk Cleanup
 - C. Disk Defragmenter
 - D. Internet Explorer**
- 30) The individual dots that form the image on a monitor are called
- A. picas
 - B. bits
 - C. pixels**
 - D. bytes

Part 2: Answer the following questions:

(20 marks)

- 1) Explain expansion slots and cards.

Most microcomputers allow users to expand their systems by providing expansion slots on the system board. Users can insert optional devices known as expansion cards into these slots. Types of expansion cards include sound cards and wireless network cards.

- 2) What are character and mark recognition devices? Describe their uses.

Character and mark recognition devices are scanners that can recognize special characters and marks. Magnetic-ink character recognition (MICR) devices are used by banks to automatically read numbers on the bottom of checks and deposit slips. Optical-character recognition (OCR) uses special pre-printed characters that can be read by a light source and changed into machine-readable code. They are used in department stores to read retail price tags. Optical-mark recognition (OMR) senses the presence or absence of a mark, such as a pencil mark. OMR is often used to score standardized multiple-choice tests.

- 3) Describe some of the advantages and disadvantages of using cloud computing and cloud storage.

Advantages: (1) you are able to tap into the power of the provider's computers and servers, while your desktop computer simply displays the results, (2) you can access your applications and data from any Internet-ready device, and (3) you do not need to continually install and maintain security patches on your desktop computers, since the software "lives" on the server and is updated and maintained by the service provider.

Disadvantages, you require access to the Internet and access speed is slower, since all information must travel over the Internet. Users are also dependent on the availability and security procedures of the service site.

- 4) Discuss how global positioning functions.

One of the most interesting applications of satellite communications. A network of 24 satellites owned and managed by the Defense Department continuously sends location information to earth. Global positioning system (GPS) devices use that information to uniquely determine the geographic location of the device. Available in many automobiles to provide navigational support, these systems are often mounted into the dash with a monitor to display maps and speakers to provide spoken directions. Many of today's cell phones use GPS technology for handheld navigation.

- 5) Explain the difference between analog and digital signals.

Analog signals are continuous electronic waves. Telephones send and receive data in the form of analog signals. Digital signals represent the presence or absence of an electronic pulse. Computers send and receive data in the form of digital signals.

6) Describe the difference between spyware and snoopware.

Spyware is a term used to describe a wide range of programs that are designed to secretly record and report an individual's activities on the Internet. Different types of spyware include ad network cookies, Web bugs, and computer monitoring software such as keystroke loggers. Snoopware is a type of computer monitoring software often used by employers to monitor employees' computer activities.

7) How do firewalls work?

Firewalls act as a security buffer between the corporation's private network and all external networks, including the Internet. All electronic communications coming into and leaving the corporation must be evaluated by the firewall. Security is maintained by denying access to unauthorized communications.

8) Describe the three types of mouse designs.

The three types of mouse designs are mechanical, optical, and wireless. A mechanical mouse has a ball on the bottom and is attached with a cord to the system unit. An optical has no moving parts. It emits and senses light to detect mouse movement. A wireless mouse is battery-powered and typically sends either a radio or infrared signal to communicate with the system unit, thereby eliminating the need for a cord.

9) What is the difference between a software suite and an integrated package?

A software suite is a collection of several different programs that have been bundled together and sold as a group. The applications function exactly the same whether purchased in a suite or separately. An integrated package is a program that provides the functionality of several different programs. However, the capabilities of each function are less extensive than in the individual programs.

10) Describe a wiki and explain how a wiki differs from a blog.

A wiki is a Web site designed to allow visitors to fill in missing information or correct inaccuracies. Wikis support collaborative writing in which there isn't a single expert author, but rather a community of interested people that builds knowledge over time. Although blogs may have multiple authors, community feedback is limited to adding comments to the site. Blogs are not a collaborative effort like wikis.