FACULTY OF MANAGEMENT

SUPPLEMENTARY EXAMINATION 2014

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

MODULE:	**FINANCIAL INFORMATION SYSTEMS**
CODE:	**FIS11B1**
DATE:	
DURATION:	**2 HOURS**
TIME:	
TOTAL MARKS:	**100**

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NUMBER OF PAGES:	**10 PAGES**

INSTRUCTIONS TO CANDIDATES:

- Answer ALL questions.
- Write neatly and legibly.
- Number your answers clearly.
- This is a closed book assessment.
- Read the questions carefully and answer only what is asked.
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

SECTION A [30]

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. _____ are two of the more widely accessed Internet services.
   a. The World Wide Web and e-mail
   b. FTP and message boards
   c. Mailing lists and chat rooms
   d. Instant messaging and VoIP

2. _____ oversees research related to the Internet.
   a. ARPANET
   b. NSFnet
   c. NASA
   d. World Wide Web Consortium (W3C)

3. Fixed wireless Internet connections _____.
   a. use an antenna to communicate with a tower
   b. are high-speed
   c. use radio signals
   d. all of the above

4. _____ high-speed Internet connections use an antenna on a house or business to communicate with a tower location via radio signals.
   a. Satellite
   b. FTTP
   c. Fixed wireless
   d. DSL

5. The _____ defines a popular video compression standard.
   a. Moving Pictures Experts Group (MPEG)
   b. Advanced Research Projects Agency (ARPA)
   c. National Science Foundation (NSF)
   d. Digital Subscriber Line (DSL)

6. _____ means that the people who are conversing on a computer are online at the same time.
   a. Automatic
   b. Real-world
   c. Real time
   d. Mainline

7. _____ enables users to speak to other users over the Internet.
   a. IrDA
   b. VoIP
   c. TCP/IP
   d. An Internet news server

8. The faster the clock speed, the more _____ the processor can execute per second.
   a. Registers
   b. Functions
   c. arguments
   d. instructions

9. A(n) _____ is a small ceramic or metal component with fins on its surface that absorbs and disperses heat produced by electrical components such as a processor.
   a. liquid cooler
   b. system brake
   c. control unit
   d. heat sink

10. Rambus DRAM (RDRAM) chips are another type of DRAM chips that are much faster than SDRAM chips because they _____.
    a. transfer data twice for each clock cycle
    b. are synchronized to the system clock
    c. do not have to be re-energized as often
    d. use pipelining techniques

11. A(n) ____ module is a removable flash memory device about one-half the size of a PC Card that adds memory, communications, and multimedia capabilities to computers.
    a. Flash
    b. ExpressCard
    c. integrated
    d. embedded

12. The Accelerated Graphics Port (AGP) is ____.
    a. the most common and slowest expansion bus
    b. a bus designed to improve the speed with which 3-D graphics and video transmit
    c. a high-speed expansion bus that connects higher speed devices
    d. a bus that eliminates the need to install cards into expansion slots

13. The USB (universal serial bus) and FireWire bus are ____.
    a. the most common and slowest expansion buses
    b. buses designed to improve the speed with which 3-D graphics and video transmit
    c. high-speed expansion buses that connect higher speed devices
    d. buses that eliminate the need to install cards in expansion slots

14. The power ____ is the component of the system unit that converts the wall outlet AC power into the DC power a computer requires.
    a. Surge
    b. Supply
    c. spotter
    d. changer

15. The operating system that a computer uses sometimes is called the ____.
    a. Base
    b. platform
    c. index
    d. boot system

16. The ____ is the core of an operating system that maintains the computer's clock, starts applications, and assigns the computer's resources, such as devices, programs, data, and information.
    a. Cell
    b. Grid
    c. nexus
    d. kernel

17. If a hard disk is damaged, a computer can be booted from a(n) ____ disk, which is usually a CD that contains a few system files that will start the computer.
    a. backup
    b. recovery
    c. establishment
    d. foundational

18. A competing operating system to Windows Phone is Palm ____, which runs on Palm-powered PDAs and smart phones.
    a. UNIX
    b. OS
    c. CE
    d. Mobile

19. ____ is processed data; that is, it is organized, meaningful, and useful.
    a. Validation
    b. An integer set
    c. Information
    d. Repository data

20. A(n) ____ language consists of simple, English-like statements that allow users to specify the data to display, print, or store.
    a. report
    b. query
    c. specification
    d. inquiry

21. Commonly used methods to retrieve and maintain data include all of the following EXCEPT ____.
    a. report generators and forms
    b. query languages
    c. validation rules
    d. query by example

22. A(n) _____ database stores data in dimensions.
    a. hypermedia
    b. hypercube
    c. multidimensional
    d. integrated

23. Software _____ occurs when someone steals software media, intentionally erases software programs, or illegally copies a software program.
    a. piracy
    b. pickpocketing
    c. theft
    d. capture

24. Software _____ is the unauthorized and illegal duplication of copyrighted software.
    a. theft
    b. extortion
    c. piracy
    d. terrorism

25. A UPS connects between a computer and a _____.
    a. peripheral device
    b. disk drive
    c. communications device
    d. power source

26. A(n) _____ is a duplicate of a file, program, or disk that can be used if the original is lost, damaged, or destroyed.
    a. restored file
    b. Bot
    c. IP file
    d. backup

27. _____ refers to unique and original works such as ideas, inventions, writings, art, processes, company and product names, and logos.
    a. PGP
    b. DoS
    c. IP
    d. TCP

28. A(n) _____ gives authors and artists the exclusive rights to duplicate, publish, and sell their materials.
    a. intellectual property deed
    b. content license
    c. access right
    d. copyright

29. An alternative to e-mail filtering is to purchase a(n) _____ program that attempts to remove a message, like the one in the accompanying figure, before it reaches a user's inbox.
    a. email
    b. sieve
    c. filtering
    d. anti-spam
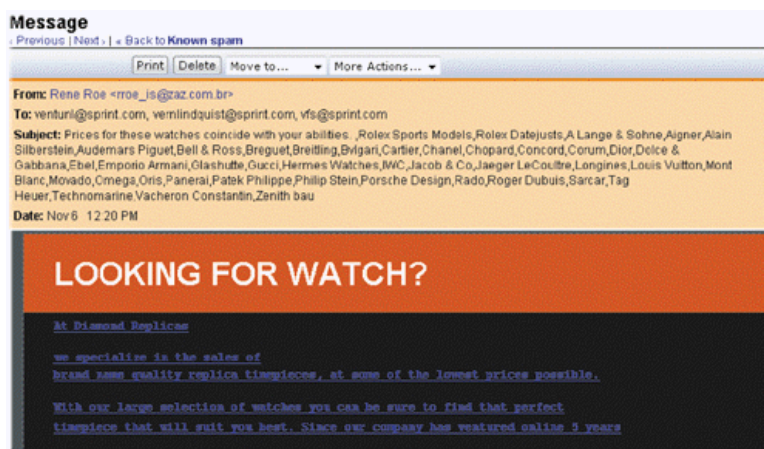
30. Web _____ software is a program that restricts access to specified Web sites.
    a. access
    b. protection
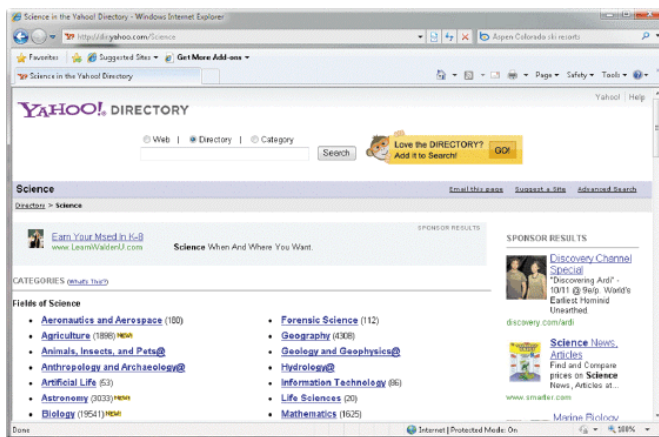   c. filtering
    d. monitoring


SECTION B [15]

True/False
Indicate whether the statement is true or false.

1. The major disadvantage with a Web site like the one in the accompanying figure is that users have difficulty deciding which categories to choose as they work through the menus of links presented.

2. Podcasting is a popular method of distributing video.

3. Businesses seldom provide goods or services to other businesses, so little e-commerce takes place between businesses.

4. A computer that stores and distributes newsgroup messages is called a newsreader.

5. Some computers use more than one processor chip.

6. The access time (speed) of memory has no effect on the overall performance of a computer.

7. Smart phones use memory cards.

8. Computers with a larger word size can process less data in the same amount of time than computers with a smaller word size.

9. Regardless of the size of the computer, most operating systems provide similar functions.

10. Some personal computer maintenance utilities continuously monitor a computer while it is used and repair problems before they occur.

11. A geographic information system (GIS) database stores audio messages.

12. Whereas a relational database can store more than two dimensions, a multidimensional database is a two-dimensional table.

13. Many browsers offer 128-bit encryption and 256-bit encryption, which are higher levels of protection than 40-bit encryption because they have longer encryption keys.

14. A message like the one in the accompanying figure, when sent through an instant messaging service, is called spit.
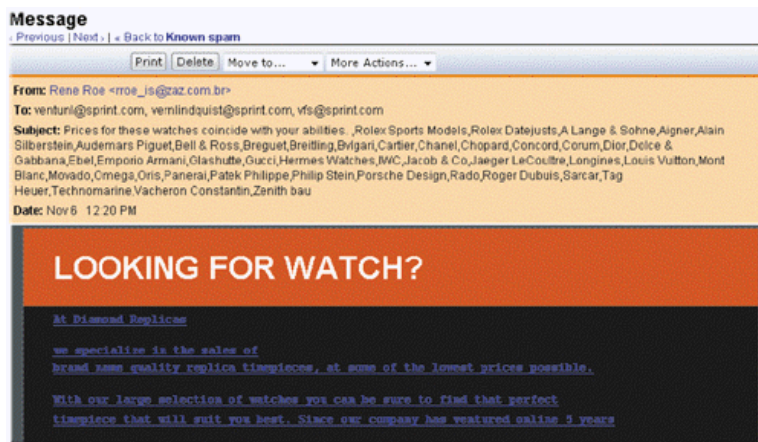
15. Many businesses use spyware to limit employees' Web access.

_____

SECTION C [15]

Matching

Identify the letter of the choice that best matches the phrase or definition.

a.	virtualization	k.	thrashing
b.	lossless	l.	taskbar
c.	lossy	m.	BIOS
d.	sleep mode	n.	command language
e.	hibernate	o.	application software
f.	administrator account	p.	anti-spam
g.	user name	q.	pop-up
h.	password	r.	antivirus
i.	gadget	s.	fragmented
j.	permissions	t.	account

1. Enables you to access all files and programs on the computer or network, install programs, and specify settings that affect all users on a computer or network.

2. When working with a command-line interface, the set of commands entered into the computer is called this.

3. A unique combination of characters that identifies a specific user.

4. A private combination of characters associated with the user name that allows access to certain computer resources.

5. Define who can access certain resources and when they can access those resources.

6. If application software has stopped responding and the hard disk's LED blinks repeatedly, the operating system probably is doing this.

7. A mini-program with minimal functionality that connects to another program or provides information.

8. When the contents of a file are scattered across two or more noncontiguous sectors.

9. Compression type in which a compressed file can be returned to its exact original state.

10. To protect a computer from virus attacks, install this kind of program and update it frequently.

11. Type of compression in which the quality of a file decreases slightly each time the file is compressed, which makes it impossible to restore the file to its exact original state.

12. Saves any open documents and programs to RAM, turns off all unneeded functions, and then places the computer in a low-power state.

13. An Internet advertisement that appears in a new window in the foreground of a Web page displayed in a user's browser.

14. A filtering program that attempts to remove spam before it reaches a user's inbox.

15. Saves any open documents and programs to a hard disk before removing power from the computer.

SECTION D [10]

Case

1. A major search engine is preparing to provide Web-based purchasing, tracking, and transaction downloading capabilities to corporations. What example of e-commerce is this?

a. B2B	b. m-commerce
c. B2C	d. C2C

2. You've just moved to a new community and are investigating options in terms of online service providers where you are now living. You have decided you would like an access provider that offers a number of members-only features in addition to just e-mail access. However, you are not interested in gateway functionality, as you do not want to have your access to Internet services regulated. Which of the following is your best option?

a. AOL	b. EarthLink
c. MSN	d. Both B and C

3. In your role as a consultant for people buying new computer systems, you always work hard to stay abreast of the latest RAM guidelines for the various levels of users. One of your clients is a power user who runs CAD software. Which of the following configurations would be an appropriate system for her?

a. AMD Sempron processor, with 1 GB memory	b. AMD Athlon X2 processor, with 2 GB memory
c. AMD Athlon II X2 Dual-Core processor, with 1 GB memory	d. AMD Opteron processor, with 8 GB memory

4. Another client used to just use standard application software but with the purchase of a new computer, he expects to start creating Web sites, playing Internet games, and participating in video conferences. Which of the following configurations would be a good match for his new anticipated needs?

a. AMD Sempron processor, with 1 GB memory	b. AMD Phenom II processor, with 4 GB memory
c. AMD Opteron processor, with 1 GB memory	d. AMD Athlon II X2 Dual-Core processor, with 8 GB memory

5. Ports and connectors have always been a little bit of a mystery to you, so you have decided to learn more about them. You have a new wireless headset that you plan to connect to your smart phone. Which of the following types of headsets do you have?

a. IrDA	b. Bluetooth
c. eSATA	d. MIDI

6. You have just been hired as the network administrator for a brand-new startup company, and your first task is to select the server operating system that you will suggest to the head of the IT team as the one you recommend for the office. You have been asked to select a server OS that will provide maximum flexibility, as three of the vice presidents in the office are all using different clients (one prefers Linux, one uses UNIX, and the third runs Windows). What is the best choice given these circumstances?

a. Solaris	b. Windows Server 2008
c. NetWare	d. Linux

7. In your new role as a DBA, you have inherited a database that has a lot of problems. Your first task, you decide, is to identify whether or not the information in your database contains the qualities of valuable information, and which quality may be missing.The manager for the eastern division sales force is upset because she wants to determine which members of her sales force need awards for high monthly sales, and which employees need remediation because they have not sold enough product during the past month. However, all of the sales information has not yet been entered into the database. What kind of information is at issue in this instance?

a. useful information	b. accessible information
c. timely information	d. verifiable information

8. Once you have worked with the data entry team to make sure that they are getting the monthly sales data into the database in a timely fashion, your next challenge is to change the method of disseminating this information from a printed report that is snail-mailed to all sales managers across the country, to an online dissemination strategy that e-mails the reports to the managers. What kind of information is at issue in this instance?

a. cost-effective information	b. useful information
c. organized information	d. verifiable information

9. In your database course, your instructor has given you a small database that has a lot of invalid data, issuing the challenge to you that you work to apply validation rules to the data and determine what checks need to be applied in order to restore integrity to the data. The instructor tells you that this is a mailing database, and yet you can see at a glance that there are some records with no data in the city field. What kind of check should you run on this field?

a. completeness check	b. consistency check
c. range check	d. check digit

10. One form of software theft is the theft of the software from software manufacturers, which is known as piracy. Because this has historically been rather easy to do, the practice has become very common. As a computer instructor you feel it is your responsibility to explain this practice to students through the use of some examples.All of the following are permissible under a EULA except

a. Jamie installs Quark Xpress on a single computer.
b. Christine leases her copy of Dreamweaver 8.
c. Phuong-Dao makes one copy of Microsoft Office 2007 as a backup.
d. Isaiah sells his copy of Adobe Photoshop CS2, having removed it from his computer first.

SECTION E   [30]

Discussion

1. Define the following terms: (7)
    1.1. Disk Defragmenter
    1.2. Botnet
    1.3. Web filters
    1.4. GIGO
    1.5. SPAM
    1.6. Parallel processing
    1.7. Pipelining

2. Discuss some of the health risks associated with the use of computers.   (5)

3. Discuss the ways Denial of Service (DoS) attacks can be carried out by perpetrators. Include in your discussion what are the damages caused by such attacks.   (5)

4. Many computer users suffer from computer addiction. List 4 symptoms of computer addiction.   (4)

5. Differentiate between an IP address and a domain name.   (2)

6. Perpetrators of cybercrime and other intrusions fall into 7 basic categories: hacker, cracker, script kiddie, corporate spy, unethical employee, cyber extortionist and cyber terrorist. Discuss each of the 7 categories.   (7)