



**UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA**  
**FIRST SEMESTER EXAMINATIONS, NOV. – DEC. 2018**

**COURSE NO:** CE 171 [Unihubgh.com](http://Unihubgh.com)  
**COURSE NAME:** INTRODUCTON TO COMPUTER SCIENCE AND ENG.  
**CLASS:** CE I **TIME:** 3 Hours

Name: \_\_\_\_\_ Index Number: \_\_\_\_\_

*Circle the correct answer from the choices provided for each of the following questions*

1. .... consists of the programs that control or maintain the operations of the computer and its devices.
  - a. A graphical user interface (GUI)
  - b. A communications device
  - c. System software
  - d. Application software
2. A(n) ..... message is a real-time Internet communication, where you exchange messages with other connected users.
  - a. text
  - b. instant
  - c. picture
  - d. video
3. .... is/are a collection of unprocessed items, which can include text, numbers, images, audio, and video.
  - a. Data
  - b. Instruction
  - c. Program
  - d. Information
4. Two types of ..... are desktop computers and notebook computers.
  - a. Servers
  - b. Mainframes
  - c. Supercomputers
  - d. Personal computers
5. Which of the following is used to describe the process of a computer or device receiving information, such as a Web page, from a server on the Internet?
  - a. Uploading
  - b. Blogging
  - c. Social networking
  - d. Downloading
6. Three commonly used ..... devices are a keyboard, a mouse, and a microphone.
  - a. Storage
  - b. Input
  - c. Output
  - d. Mobile
7. When using spreadsheet software, a function .....
  - a. depicts data in graphical form
  - b. changes certain values to reveal the effects of the changes
  - c. is a predefined formula that performs common calculations
  - d. contains the formatting necessary for a specific worksheet type
8. .... combines application software such as word processing, spreadsheet, presentation graphics, and other programs in a single, easy-to-use package
  - a. A software suite
  - b. Shareware
  - c. Packaged software
  - d. Custom software
9. .... is the delivery of education via some electronic method such as the Internet, networks, or CDs/DVDs.
  - a. A template
  - b. E-learning
  - c. Online learning
  - d. Distance learning

10. A simplified accounting program that helps home users and small office/home office users balance their checkbooks, pay bills, track personal income and expenses, set up budgets, manage home inventory, track investments, and evaluate financial plans
- Note taking software
  - Personal finance software
  - Web app
  - Accounts database
11. The ..... is the component of the processor that directs ..... and coordinates most of the operations in the computer.
- register
  - arithmetic logic unit
  - control unit
  - machine cycle
12. The speed of an ink-jet printer is measured by the number of ..... it can print.
- pages per minute (ppm)
  - dots per inch (dpi)
  - characters per second (cps)
  - lines per page (lpg)
13. An ergonomic keyboard .....
- is used to enter data into a biometric device
  - has a design that reduces wrist and hand injuries
  - transmits data using wireless technology
  - is built into the top of a hand-held computer
14. .... measures the amount of time it takes a storage device to locate an item on a storage medium.
- Capacity
  - Access time
  - Storage medium
  - Reading
15. A group of two or more integrated hard disks is called a
- backup
  - platter
  - RAID
  - Portable hard disk
16. Users subscribe to a cloud storage service to .....
- access files from any computer that has Internet access
  - allow others to access their files
  - store offsite backups of data
  - all of the above
17. Computer and network administrators typically have a(n) ..... that enables them 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.
- file manager
  - personal computer maintenance utility
  - administrator account
  - graphical user interface
18. A(n) ..... is a program that warns or blocks you from potentially fraudulent or suspicious Web sites.
- phishing filter
  - adware remover
  - web filter
  - trojan horse
19. .... is a standard, specifically a protocol, that defines how a network uses radio signals to communicate with a tag placed in or attached to an object, an animal, or a person.
- RFID
  - WiMAX
  - Bluetooth
  - UWB
20. All of the following are strengths of the database approach, except .....
- Less complexity
  - Improved data integrity
  - Reduced development time
  - Easier access

**Fill-in the blanks with the most appropriate answers**

21. .... records (writes) and/or retrieves (reads) items to and from storage media.
22. The fastest, most powerful computer and the most expensive in known as .....
23. The ..... is an electronic component that interprets and carries out the basic instructions for a computer.
24. In internet technology, the program that finds Web sites, Web pages, images, videos, news, maps, and other information related to a specific topic is known as .....
25. The ..... allows a user to perform maintenance-type tasks usually related to managing a computer, its devices, or its programs.
26. A feature, called ....., allows users of word processing software to type words continually without pressing the ENTER key at the end of each line.
27. .... are storage media which consist entirely of electronic components, such as integrated circuits, and contain no moving parts.
28. .... consists of simple, English-like statements that allow users to specify the data to display, print, or store.
29. .... is a technique intruders use to make their network or Internet transmission appear legitimate to a victim computer or network.
30. .... a potentially damaging computer program that affects, or infects, a computer negatively by altering the way the computer works without the user's knowledge or permission.

**Indicate with the letter T or F respectively whether the following statements are true or false**

31. A network is a collection of computers and devices connected together, often wirelessly, via communications devices and transmission media.
32. System software serves as the interface between the user, the application software, and the computer's hardware.
33. A notebook computer is a computer small enough to fit in one hand.
34. Tabbed browsing refers to the practice of Web sites keeping tabs on their visitors.
35. Open source software has restrictions from the copyright holder regarding modification of the software's internal instructions and redistribution of the software.
36. The desktop of a computer is an on-screen work area that has a graphical user interface.
37. All communications software is considered to be application software.
38. The arithmetic logic unit directs and coordinates most of the operations in the computer.
39. RAM can hold only one program at a time.
40. A byte is the smallest unit of data the computer can process.

**, Answer Any Three of the Following Questions Precisely**

1. a) Mention any three health risks posed by computers. Explain one way by which computer can impact negatively on our environment.  
b) Mention and precisely explain the two types of computer software.  
c) Mention any five (5) types of storage devices stating the distinct characteristic of each.
  
2. a) How is a Web page different from a Web site?  
b) What are the features of presentation graphics software? What types of media might a person use to enhance a presentation?  
c) Describe any two types of utility programs. What is malware?
  
3. a) What is longitudinal recording in relation to digital storage? What is the benefit of perpendicular recording over longitudinal recording?  
b) How is a single session disc different from a multisession disc? What is a CD-RW?  
c) How is a cold boot different from a warm boot? How does a file become fragmented?
  
4. a) What is the database approach? Describe five strengths of the database approach.  
b) What is UWB and what are its benefits? What are some uses of UWB?  
c) What are three different types of digital modems? How does each one function?

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