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**SCHOOL OF ACCOUNTING AND BUSINESS**  
**BSc. (APPLIED ACCOUNTING) GENERAL / SPECIAL DEGREE**  
**PROGRAMME 2014/15**

**YEAR I SEMESTER I (Group A)**  
**END SEMESTER EXAMINATION – JUNE 2014**

**ICT 10130 Introduction to Information Technology**

Date : 25<sup>th</sup> June 2014  
Time : 9.00a.m. – 11.30 p.m.  
Duration : Two and half (02 1/2) Hours

**Instructions to Candidates:**

- This paper consists of two parts (A and B)
- Part A – Answer **all** questions in the sheet provided.  
Part B – Answer any **Two (2)** questions out of the Three (3) questions.
- The total marks for the paper is 60.
- The marks for each question are shown in brackets.
- Answers should be written neatly and legibly.

## Part A

Answer ALL Questions

### Multiple Choice Questions

1. Which of the following inventions resulted in the most substantial increase in processing power of early computers while bringing their sizes down?
  - a. Invention of the Vacuum Tubes
  - b. Invention of Semiconductors
  - c. Invention of the Transistor
  - d. Invention of the Integrated Circuits (ICs)
2. How would you represent the decimal value of 33 in Binary?
  - a. 1E
  - b. 30
  - c. 1C
  - d. 10001
3. Communication between computers is achieved by connecting them together and setting up of strict rules for communication to take place. These 'rules' are more appropriately termed as :
  - a. Protocols
  - b. Internet
  - c. Web
  - d. Browser
4. Which of the following storage devices allows access to information in a sequential manner?
  - a. CD-R
  - b. DVD
  - c. Hard disk
  - d. Magnetic tape

5. Testing a program for any syntax or semantic errors is known as :
  - a. Double checking
  - b. Editing
  - c. Debugging
  - d. Decoding
  
6. In programming, converting a high level language instructions into machine language instructions is done by :
  - a. Drivers
  - b. Service Programs
  - c. Converters
  - d. Translators / Compilers
  
7. Which of the following protocols is used for sending email?
  - a. FTP
  - b. SMTP
  - c. TCP/IP
  - d. HTTP
  
8. Which of the followings is NOT a function of the Operating System?
  - a. Database management
  - b. Process management
  - c. Memory management
  - d. Disk management
  
9. Which of the following Technologies is likely to be used for Cash less payments in buses in the near future in Sri Lanka :
  - a. NFC (Near Field Communication)
  - b. Visa Credit Cards
  - c. Master Cards
  - d. Dialog eZCash

10. Microwave transmission is a typical example of \_\_\_\_\_.
- a. Line of sight transmission
  - b. Ground Wave transmission
  - c. Infrared Wave transmission
  - d. Optical transmission
11. \_\_\_\_\_ provide a file-system interface where clients can create, update, read and delete files.
- a. Compute Server Systems
  - b. Peer-to-peer Systems
  - c. File Server Systems
  - d. None of these
12. Which of the following is a traditional scheme of IP Addressing?
- a. IPv6
  - b. IPv4
  - c. Broadcasting
  - d. None of these
13. A computer derives its basic strength from \_\_\_\_\_.
- a. Speed
  - b. Accuracy
  - c. Memory
  - d. all of the above
14. Modern computers compared to earlier computers are \_\_\_\_\_.
- a. Faster and larger
  - b. Less reliable
  - c. Larger and stronger
  - d. Faster and smaller

15. A computer is capable of performing almost any task, provided that it can be \_\_\_\_\_.  
a. Memorized  
b. Analyzed  
c. Reduced to a series of logical steps  
d. Changed top mathematics equation
16. A Bit represents a \_\_\_\_\_.  
a. Decimal digit  
b. Octal digit  
c. Binary digit  
d. Hexadecimal digit
17. A computer has very high speed, accuracy and reliability. Its intelligence quotient could be of the order of \_\_\_\_\_.  
a. 100  
b. 0  
c. 50  
d. 200
18. Processors of all computers, whether micro, mini or mainframe must have \_\_\_\_\_.  
a. ALU  
b. Local storage  
c. Control Unit  
d. All of the above
19. Real time computing is possible because of the following characteristic of computer \_\_\_\_\_.  
a. Storage capability  
b. High speed  
c. Accuracy  
d. Versatility

20. A collection of eight bits is called\_\_\_\_\_.
- a. Byte
  - b. Word
  - c. Record
  - d. file
21. Control Unit of a digital computer is often called the \_\_\_\_\_.
- a. Lock
  - b. Nerve center
  - c. ICs
  - d. all of the above
22. Group of instructions that directs a computer is called \_\_\_\_\_.
- a. Storage
  - b. Memory
  - c. Logic
  - d. Program
23. Software instruction intended to satisfy a user's specific processing needs are called \_\_\_\_\_.
- a. System software
  - b. A microcomputer
  - c. Documentation
  - d. Applications software
24. Which of the followings is not a factor when categorizing a computer?
- a. Amount of main memory that the CPU can use
  - b. Capacity of the storage devices
  - c. Where it was purchased
  - d. Speed of the input/output devices

25. The Central Processing Unit (CPU) consists of:
- a. Input, output and processing
  - b. Control unit, local storage & secondary storage
  - c. Control unit, arithmetic-logic unit, local storage
  - d. Control unit, processing, and local storage
26. What are the five main components of a computer system?
- a. CPU, CD-ROM, mouse, keyboard, sound card
  - b. Memory, Video Card, Monitor, Software, Hardware
  - c. Modem, Keyboard, Word Processor, Printer, Screen
  - d. CPU, memory, system bus, input, output
27. How do the main components of the computer communicate with each other?
- a. Through system bus
  - b. Through memory
  - c. Via keyboard
  - d. Using mouse
28. The three activities in an information system that produce the information to control operations are \_\_\_\_\_.
- a. input, processing, and output.
  - b. data analysis, processing, and feedback.
  - c. information retrieval, research, and analysis.
  - d. input, output, and feedback.
29. The average number of tickets sold daily online is an example of \_\_\_\_\_.
- a. raw data.
  - b. meaningful information.
  - c. feedback.
  - d. input.

30. Order data for baseball tickets and bar code data are examples of \_\_\_\_\_.
- a. raw input.
  - b. sales information.
  - c. customer and product data.
  - d. raw output.
31. The hardware and software used to transfer data in an organization is called \_\_\_\_\_.
- a. networking and data management technology.
  - b. data and telecommunications technology.
  - c. data management technology.
  - d. networking and telecommunications technology.
32. A malicious computer program that copies itself from one computer to another over a network is called a \_\_\_\_\_.
- a. bug.
  - b. pest.
  - c. Trojan horse.
  - d. worm.
33. A salesperson clicks repeatedly on the online ads of a competitor in order to drive the competitor's advertising costs up. This is an example of \_\_\_\_\_.
- a. pharming.
  - b. spoofing.
  - c. click fraud.
  - d. phishing.
34. A keylogger is a type of \_\_\_\_\_.
- a. worm.
  - b. spyware.
  - c. virus.
  - d. Trojan horse.



35. Hackers create a botnet by \_\_\_\_\_.
- a. infecting Web search bots with malware.
  - b. by using Web search bots to infect other computers.
  - c. by infecting corporate servers with "zombie" Trojan horses that allow undetected access through a back door.
  - d. by causing other people's computers to become "zombie" PCs following a master computer.
36. Tricking employees to reveal their passwords by pretending to be a legitimate member of a company is called \_\_\_\_\_.
- a. pharming.
  - b. social engineering.
  - c. phishing.
  - d. sniffing.
37. How do software vendors correct flaws in their software after it has been distributed?
- a. re-release software
  - b. issue patches
  - c. issue bug fixes
  - d. issue updated versions
38. A digital certificate system \_\_\_\_\_.
- a. is used primarily by individuals for personal correspondence.
  - b. uses tokens to validate a user's identity.
  - c. uses third-party CAs to validate a user's identity.
  - d. uses digital signatures to validate a user's identity.
39. Which of the following Network Topology is easiest to expand?
- a. Mesh
  - b. Bus
  - c. Star
  - d. Ring

40. Which Software out of the followings belongs to the Licensing Type – Open Source?

- a. MS Word
- b. Firefox
- c. Oracle
- d. Acrobat Reader

**(Total 40 Marks)**

**Part B**

Answer any TWO (2) questions out of the THREE (3) questions given.

Open-Ended Questions

**Question No. 01**

- a. What is the role of an Operating System (OS) in a typical personal computer?

(5 marks)

- b. Is it possible to install open source software directly into a computer? Justify your answer.

(5 marks)

**(Total 10 Marks)**

**Question No. 02**

- a. Consider the following statement.

“The Internet and World Wide Web (WWW) are the same”. Is this a valid statement? Justify your answer.

(5 marks)

- b. From an Internet user’s point of view, what is meant by the term “upload” and “download”? Explain with an example.

(5 marks)

**(Total 10 Marks)**

**Question No. 03**

- a. Explain using an example, how one can create a digital signature.

(5 marks)

- b. Comment on the statement below with your justification.

“A digitally signed document can provide not only authentication but also integrity of the document.”

(5 marks)

**(Total 10 Marks)**