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

YEAR I SEMESTER I – INTAKE VIII (GROUP B)
END SEMESTER EXAMINATION – JUNE 2017

ICT 10130 Introduction to Information Technology

Date : 10th June 2017
Time : 9.00 a.m. - 11.00 a.m.
Duration : Two (02) Hours

Instructions to Candidates:

- Write the Index Number in the space provided at the top of this sheet. Do not write your name anywhere in this question paper.
- This paper consists of two parts (A and B)
- Part A - Answer **all** questions on question paper itself.
- Part B - Answer any **Three (3)** questions out of the Four (4) 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
Multiple Choice Questions

Answer **ALL** Questions. There are **thirty (30)** questions and each worth **1 mark**.

Question No. 01

1. _____ is regarded as the first computer programmer in the history of computing.
- a. Blaise Pascal
 - b. Charles Babbage
 - c. Ada Augusta Lovelace
 - d. Alan Turing

Answer:

2. Which of the following technologies is used in the computers of third generation?
- a. Very Large Scale Integration
 - b. Integrated Circuit
 - c. Transistor
 - d. Vacuum Tube

Answer:

3. Which of the followings is **not** an element of a data communication system?
- a. Communication protocol
 - b. Connection device
 - c. Communication channel
 - d. Network topology

Answer:

4. Which of the followings is located outside the microprocessor?
- a. Random Access Memory
 - b. Registers
 - c. Control Unit
 - d. Arithmetic and Logic Unit

Answer:

5. In computer programming, _____ reads high-level program statements in a program one at a time and turns it into machine code.
- a. assembler
 - b. compiler
 - c. interpreter
 - d. converter

Answer:

6. Which of the followings lists the secondary storage media in the order of increasing capacity?
- a. BD, DVD, Hard disk
 - b. Hard disk, BD, CD
 - c. Hard disk, DVD, CD
 - d. DVD, BD, Hard disk

Answer:

7. Which of the following methods is used by an operating system to execute an application which requires more memory than the maximum memory available in a computer?
- a. Cache Memory
 - b. Virtual Memory
 - c. Read Only Memory
 - d. Random Access Memory

Answer:

8. If the character 'E' is represented as 01000101 in ASCII coding scheme, what is the ASCII code for character 'B'?
- a. 01000001
 - b. 01000010
 - c. 01000011
 - d. 01000100

Answer:

9. Which of the followings cannot be a potential source of computer viruses?
- a. Pirated software
 - b. Flash drive
 - c. External hard disk
 - d. Plain text email

Answer:

10. Which of the followings shows the protocol of the <https://payment.casrilanka.lk/index.html> URL used to access a resource on Internet?
- a. https
 - b. payment.casrilanka.lk
 - c. index.html
 - d. .html

Answer:

11. When a computer program is executed, program instructions and data are directly brought into the CPU through the cache memory from the _____.
- a. computer network
 - b. hard disk
 - c. main memory
 - d. optical disc

Answer:

12. Which of the following technologies is the **most** appropriate to be incorporated into library books when implementing a self-checkout library system?

- a. Quick Response (QR) codes
- b. Magnetic strips
- c. Radio Frequency Identification (RFID) tags
- d. Barcodes

Answer:

13. Which of the followings is an essential function of an operating system?

- a. Detecting malicious software
- b. Executing applications
- c. Backing up data
- d. Defragmenting hard disk

Answer:

14. "Adobe Photoshop" is an example for a

- a. specialized application software.
- b. general purpose application software.
- c. software utility.
- d. system software.

Answer:

15. The parts of a typical information system are

- a. liveware, software, hardware and data.
- b. liveware, software, hardware, data and procedures.
- c. firmware, software, hardware, data, procedures and connectivity.
- d. liveware, software, hardware, data, procedures and connectivity.

Answer:

16. Which of the followings lists the computer networks based on the geographic area that they span in ascending order?

- a. PAN, WLAN, MAN, WAN
- b. PAN, LAN, MAN, WLAN
- c. WAN, MAN, LAN, PAN
- d. PAN, MAN, LAN, WAN

Answer:

17. Which of the following statements is **incorrect** regarding the files in a computer?

- a. Files are used to store data electronically.
- b. A file name can have an extension.
- c. It is possible to create folders inside a file.
- d. The extension of a file can be changed.

Answer:

18. The process of creating tracks and sectors on a magnetic disk is called as disk

- a. formatting.
- b. defragmenting.
- c. scanning.
- d. encrypting.

Answer:

19. OCR devices are used

- a. to read barcodes.
- b. to detect presence or absence of special marks.
- c. to read characters written in a magnetic ink.
- d. to recognise the characters in a document.

Answer:

20. Which of the following statements is false with respect to the ASCII coding scheme?

- a. It is used to represent keyboard characters.
- b. It is an 8-bit code.
- c. It is introduced to support international languages.
- d. It can represent a maximum of 256 symbols uniquely.

Answer:

21. If x is the base of the number 11_x , which of the following number system(s) can the number 11_x belong to?

- a. Binary only
- b. Decimal only
- c. Either binary or decimal only
- d. Either binary, decimal or hexadecimal

Answer:

22. Which of the followings can be classified as data in comparison to information?

- a. Average monthly temperature in Colombo
- b. A pie chart showing the percentages of male and female students in a university
- c. Country code of a telephone number
- d. Maximum marks obtained for accounts in the G.C. E (A/L) exam

Answer:

23. Quick Response (QR) code incorporated into billboards to direct the viewers to the corresponding website containing further details is an example for a

- a. raw input.
- b. information.
- c. processed data.
- d. raw output.

Answer:

24. Which of the followings is used to connect external devices to the system unit?

- a. Bus
- b. Port
- c. Clock
- d. Slot

Answer:

25. What is the 8-bit binary equivalent of hexadecimal F?

- a. 1111
- b. 11110000
- c. 00001111
- d. 1110

Answer:

26. What is the decimal equivalent of binary 00100011?

- a. 23
- b. 33
- c. 35
- d. 43

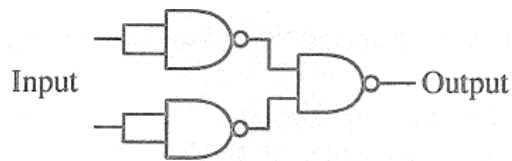
Answer:

27. The input required for the output of X OR Y to equal zero is

- a. $X = 0, Y = 0.$
- b. $X = 0, Y = 1.$
- c. $X = 1, Y = 0.$
- d. $X = 1, Y = 1.$

Answer:

28. Consider the following combinational circuit constructed using universal gates:



The above circuit is equivalent to a/an

- a. NOT gate
- b. AND gate
- c. OR gate
- d. NAND gate

Answer:

29. _____ are used to conceal the internal network structure and thereby make computers and users on internal network anonymous.

- a. Firewalls
- b. User names and passwords
- c. Cloud servers
- d. Proxy servers

Answer:

30. Which of the following statements is true with respect to the computer security?

- a. Firewalls are only available as hardware.
- b. Spam is an unsolicited emails.
- c. Camfecting is hacking into a webcam and activate it without the owner's knowledge.
- d. Logical security can be achieved through the use of user names and passwords.

Answer:

Part B

Open-Ended Questions

Answer any **Three (3)** questions out of the Four (4) questions

Question No. 02

- a. Giving examples, explain the role of system software plays in computer systems.
(5 marks)
- b. "General purpose applications are a kind of software that you should know how to use to be computer literate".
Do you agree with the above statement? Explain using examples.
(5 marks)
- (Total 10 marks)**

Question No. 03

- a. Describe the characteristics such as media, device, capacity, speed and cost of secondary storage taking Digital Versatile Disc as an example.
(5 marks)
- b. "LED monitors generally have a higher contrast ratio over their LCD counterparts".
Do you agree with the above statement? Explain your answer.
(5 marks)
- (Total 10 marks)**

Question No. 04

- a. Taking internet telephone modem as an example, explain the role that is played by connection devices in data communication systems.

(5 marks)

- b. What do you mean by cloud computing? Explain using examples.

(5 marks)

(Total 10 marks)

Question No. 05

- a. Using a suitable example, describe the need of a binary coding scheme like ASCII in computing.

(5 marks)

- b. How images are represented in computers? Explain using a four colour simple image as an example.

(5 marks)

(Total 10 marks)