

EASTERN UNIVERSITY, SRI LANKA  
FACULTY OF COMMERCE AND MANAGEMENT  
FIRST YEAR FIRST SEMESTER EXAMINATION IN  
BUSINESS ADMINISTRATION / COMMERCE - 2010/2011 (MARCH 2012)  
**MGT 1012 – INTRODUCTION TO INFORMATION TECHNOLOGY**

(Proper/Repeat/Re-Repeat)

Answer all questions

Time: 2 Hours

**Part A: Choose most appropriate answer for the following and mark in the given answer sheet. (2x25=50 marks)**

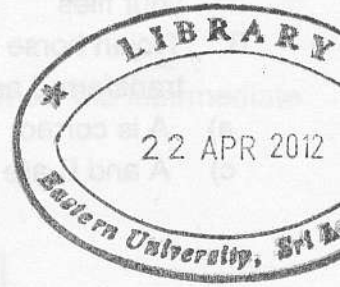
- 1) A computer performs the following tasks
  - a) Accepting instructions from the user
  - b) - Accepting data from the user
  - c) Presenting the information or output to the user
  - d) All of the above
  
- 2) An input to a computer contains
  - a) Data and Information
  - b) Information and Instruction
  - c) Data and Instruction
  - d) Input and output
  
- 3) ENIAC and EDVAC are
  - a) First digital computers
  - b) First generation computer
  - c) First digital calculator
  - d) Built using Transistors
  
- 4) Father of computers
  - a) Chare Xavier
  - b) Blaise Pascal
  - c) Charles Babbage
  - d) Wilhem Schickard
  
- 5) Which statement is valid?
  - a) 1MB = 1024 bits
  - b) 1 MB = 1024 Bytes
  - c) 1 MB = 1024 kilobits
  - d) None of the above
  
- 6) Chief component of second generation computers are
  - a) Transistors
  - b) Vacuum Tubes
  - c) Integrated Circuits
  - d) None of the above

- 7) Which of the following is not an application of fifth generation computers?
- Missile control system
  - Speech recognition systems
  - Payroll system
  - Robotics
- 8) How do the main components of the computer communicate with each other?
- Mother board
  - System bus
  - ROM
  - Registers
- 9) ALU of a computer is in
- controlling flow of output
  - controlling flow of input
  - comparing numbers
  - None of the above
- 10) An example for impact printer is
- Dot matrix printer
  - Inkjet printer
  - Laser printer
  - Plotter
- 11) A volatile memory unit
- ROM
  - RAM
  - EPROM
  - Hard disk
- 12) Which of the following is not an example for operating system
- Power point
  - MacOS
  - Unix
  - Android
- 13) A computer program that developed to perform some specific tasks by user are known as,
- System software
  - Application software
  - Firm ware
  - Live ware
- 14) ASCII stands for
- American Status Centre for Instruction Interchange
  - American Status code for Information Interchange
  - American Standard Centre for Information Interchange
  - American Standard Code for Information Interchange
- 15) Which of the following group of devices are not used as connectivity devices?
- Network card, Switches, Hubs, Repeaters
  - Hubs, Repeaters, Bridges, Routers
  - Network card, Hubs, Gateways, Modems
  - Hubs, card readers, Gateways, Modems

- 16) The interconnection of computers for sharing of information and resources are known as,
- a) Internet  
b) Email  
c) Network  
d) Google
- 17) Which of the following is not an example for wireless transmission media?
- a) Bluetooth  
b) Microwave  
c) Infrared  
d) Telephone
- 18) The following truth table represent

A	B	P
0	0	0
0	1	1
1	0	1
1	1	0

- a) NAND gate  
b) NOR gate  
c) XOR gate  
d) XNOR gate



- 19) ADSL stands for
- a) Asymmetric Digital Subscribers Line  
b) Asymmetric Divided Support Line  
c) Asymmetric Divided Subscribers Link  
d) Asymmetric Digital Support Line
- 20) URL stands for
- a) Universal Resource Linker  
b) Universal Resource Locater  
c) Uniform Resource Linker  
d) Uniform Resource Locater
- 21) Which computer memory is used for storing programs and data currently being processed by the CPU?
- a) Volatile memory  
b) Non-volatile memory  
c) Mass memory  
d) Permanent memory
- 22) The decimal equivalence of  $10110110.1011_2$  is,
- a) 178.4375  
b) 182.4375  
c) 178.6875  
d) 182.6875
- 23) The Hexadecimal equivalence of  $1110101.111011_2$  is,
- a) 75.3B  
b) 75.EC  
c) 117.921875  
d) None of the above

24) Consider the following number representation:

A.  $1D3E_{16}$       B.  $16476_8$       C.  $1110100111101_2$

- a) A and B are equivalent numbers
- b) B and C are equivalent numbers
- c) A and C are equivalent numbers
- d) All three numbers are equivalent.

25) Consider the following statements on worms and Trojan Horses:

- A. A Worm is a file that appears harmless, but makes your computer susceptible to malicious intruders by allowing them to access and read your files
  - B. Trojan horse can spread itself to other computers without needing to be transferred as part of a host
- a) A is correct
  - b) B is correct
  - c) A and B are correct
  - d) A and B are wrong

### Part B: Answer all questions.

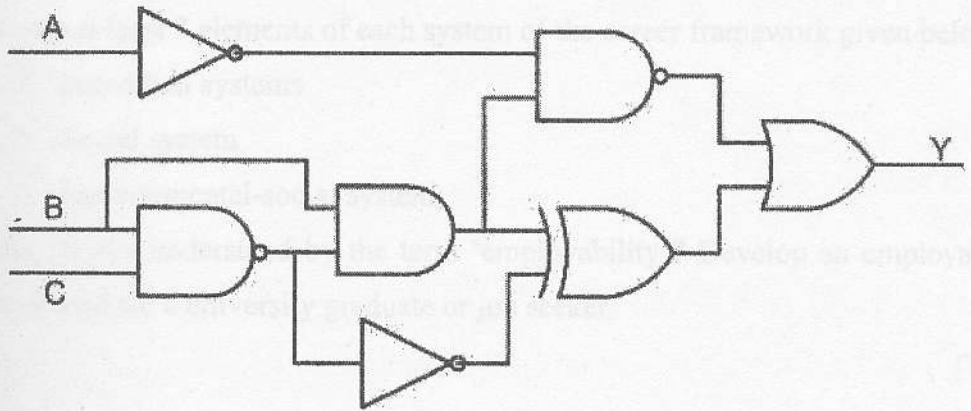
#### Question 01.

- a) What do you understand by Computers?
- b) Draw the block diagram of a computer and explain the major functions of each part.
- c) List five examples for Input devices and Output devices.
- d) Give three examples for optical storage devices.
- e) What are the two type of software? Give two examples for each type.
- f) What do you understand by Firmware?
- g) Describe the Central processing Unit, Its main components and their functions.
- h) List five advantages of computer networks.
- i) List three transmission media that used to connect the computers on a wired network.
- j) Write shot notes on the following:
  - i. Local Area Network
  - ii. Wide area network
  - iii. Internet
  - iv. Email

[25 marks]

**Question 02.**

- a) List three names of the web browsers.
- b) List five services that the internet provides to its connected users.
- c) Explain the anatomy of the following URL:  
`http://www.esn.ac.lk/FCM/index.html`
- d) What is a Computer Virus? Briefly explain how it enters into a computer and affects it.
- e) Discuss the usage of ICT in your day today activities.
- f) Draw the Truth Table for the following Logic Circuit. Show the intermediate steps in filling the Truth Table.



- g) Convert the following Hexadecimal numbers to Binary numbers, Octal numbers, and Decimal numbers.
  - i.  $765_{16}$
  - ii.  $3AD.9C_{16}$
- h) Convert the following Decimal numbers to Binary numbers, Octal numbers, and Hexadecimal numbers.
  - i. 765
  - ii. 15.6525

[25 marks]