



**SLIATE**

**SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION**

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Management**  
**First Year, First Semester Examination – 2017**  
**MAN 1102 – Introduction to Computing**

Instructions

Answer Part A and any four question from Part B

All questions carry equal marks

No. of questions : 06

No. of pages : 03

Time : Three hours

**Part A**

**Question 01.**

**Select the most suitable answer form the followings**

- i) The DOS has
- a) Support windows application
  - b) Multi user multi-tasking OS
  - c) Command Line Interface
  - d) Graphical User Interface
- ii) Personal Computers are also called
- a) Minicomputers
  - b) Microcomputers
  - c) Supercomputers
  - d) Maxi Computers
- iii) CD Rom is
- a) Semiconductor Memory
  - b) Memory Register
  - c) Magnetic Memory
  - d) None of the above
- iv) Which of the following network topology needs more cables?
- a) Star
  - b) Ring
  - c) Bus
  - d) Tree

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- v) Which printer produce realistic output?  
 a) Thermal Wax Printer  
 b) Dye sublimation Printer  
 c) Photo Printer  
 d) Plotter
- vi) The network that covers a different geographical area is called a .....  
 a) Local area network  
 b) Distance area network  
 c) Wide area Network  
 d) large area network
- vii) Which of the following will not require to play games with computer?  
 a) Microphone  
 b) Joy Stick  
 c) Mouse  
 d) Scanner
- viii) Which type of monitor is commonly used in portable computers?  
 a) Cathode ray tube  
 b) Flat-panel display  
 c) Monochrome  
 d) Data projector
- ix) Volatile memory is.....  
 a) ROM  
 b) CD ROM  
 c) RAM  
 d) Hard Disk
- x) Which device is used to connect the nodes of the network  
 a) Protocol  
 b) Hub  
 c) Topology  
 d) Structure

[Total 20 Marks]

### Part B

#### Question 02.

- i) What is computer? [02 Marks]
- ii) Briefly describe three types of computers for individual users [06 Marks]
- iii) Mention the differences among mainframe, minicomputer and supercomputer [04 Marks]
- iv) Briefly explain the followings
- a. Processing devices
  - b. Memory devices
  - c. Input and output devices
  - d. Storage devices

[08 Marks]

[Total 20 Marks]

**Question 03.**

- i) Write three major services which are provide by internet and briefly explain them. [06 Marks]
- ii) What are the main functions of a MODEM? [02 Marks]
- iii) Write the difference between active and passive matrix LCD [06 Marks]
- iv) Write the short notes for the followings
  - a. Video Card
  - b. Pixels
  - c. Resolution

[06 Marks]  
[Total 20 Marks]

**Question 04.**

- i) Write four ergonomics which are related to input and output devises [04 Marks]
- ii) Write the differences between dot matrix and ink-jet printers [04 Marks]
- iii) Write advantages and disadvantages of laser and dot matrix printer [06 Marks]
- iv) Write the short notes on the followings
  - a. Ink-jet printer
  - b. Photo printer
  - c. Plotter

[06 Marks]  
[Total 20 Marks]

**Question 05.**

- i) State two factors which are used to evaluate the performance of the processor. [04 Marks]
- ii) Draw a simple block diagram of a computer [05 Marks]
- iii) Write the difference between volatile and non-volatile memory [05 Marks]
- iv) Briefly explain the main purpose of the followings
  - a. System software
  - b. Utility program
  - c. Application software

[06 Marks]  
[Total 20 Marks]

**Question 06.**

- i) Write four uses of computer network [04 Marks]
- ii) Briefly explain three types of network structures(server based, Clint/server and pear to pear network) [06 Marks]
- iii) Write three differences between twisted pair and fiber optic cable [04 Marks]
- iv) Write the short notes for the followings
  - a. Cache memory
  - b. Flash memory
  - c. CPU

[06 Marks]  
[Total 20 Marks]