

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 Information Technology First Year, First Semester Examination – 2019 HNDIT1102 – Computer Hardware

Instructions for Candidates:
Answer four (4) questions only

No. of questions : 05
No. of pages : 03
Time : 02 hours

Question 01

1. Name **two (02)** types of outputs produced by a computer. (02 Marks)
 2. Describe the terms Hardware and Liveware and provide one example for each. (04 Marks)
 3. Write the five (05) generations of computers and the main technologies used in each generation. (05 Marks)
 4. Briefly explain **three (03)** characteristics of a computer. (06 Marks)
 5. Draw a block diagram of information processing and briefly explain the diagram. (08 Marks)
- [Total 25]

Question 02

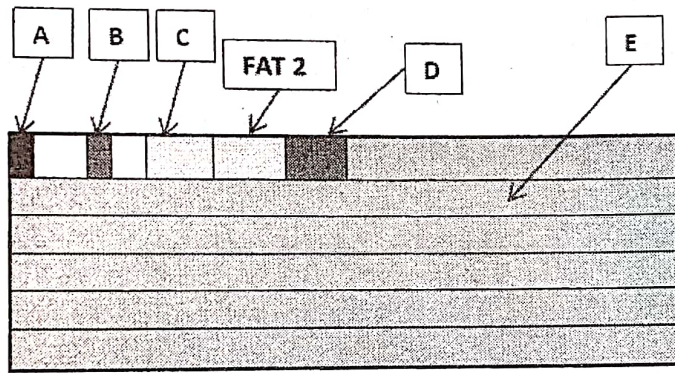
1. Compare and contrast program and software. (02 Marks)
2. "Some devices can be connected to a computer without manually installing driver software" Do you agree? Justify your answer. (04 Marks)
3. Briefly explain the purpose of device drivers. (03 Marks)
4. Write the steps of updating a driver software in windows computer. (03 Marks)
5. Write Two(02) examples of an operating system and give three (03) tasks performed by an operating system. (05 Marks)
6. Name Four(04) types of system software and briefly explain two of them.(08 Marks)

Application
System
Utility Software

[Total 25]

Question 03

1. What is the difference between file and a folder. (02 Marks)
2. Give an example for file extension for following types of files. (04 Marks)
 - a. Audio files . .mp3
 - b. Video files . .mp4, .avi,
 - c. Programming files . .cpp, java
 - d. Compressed files . .zip, rar
3. Identify the logical areas of Hard Disk Drive represented by the labels (A to E) (05 Marks)



4. Briefly explain the three (03) types of storage technologies used to store data in a computer. (06 Marks)

RAM
ROM
Hard

Cash
volatile
non-volatile
5. Explain four (04) differences between CRT displays and LCD Displays. (08 Marks)

[Total 25]

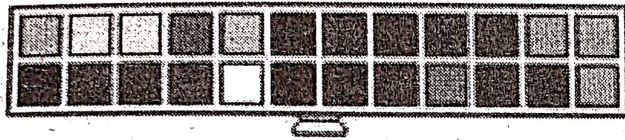
Question 04

1. Name two (02) types of user accounts available in Windows. (02 Marks)
2. Compare and contrast Administrator account and Standard user account. (04 Marks)
3. How do you prevent losing your important files from system crashes? Briefly explain two (02) practices. (05 Marks)
4. Differentiate the two terms "Warm Booting" and "Cold Booting"? (06 Marks)
5. Write short notes on the following. (08 Marks)
 - a. Touch Screen Technologies
 - b. Modular Design

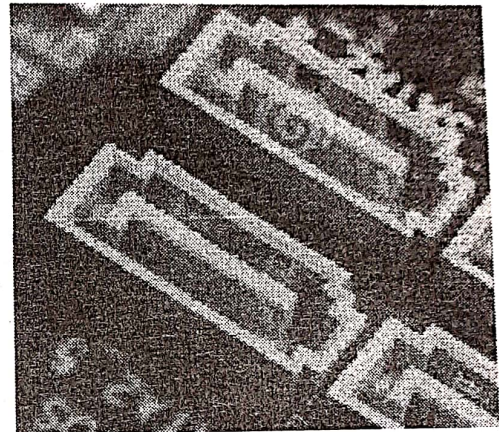
[Total 25]

Question 05

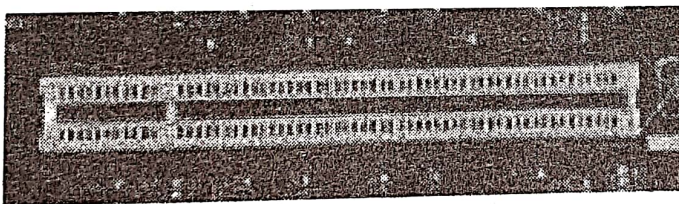
1. What is the purpose of BIOS configuration utility (02 Marks)
2. Name the devices which can be connected through the following ports which are available in the Mother board. (04 Marks)



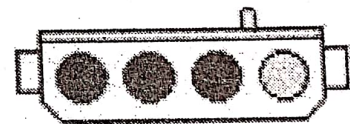
A



B



C



D

3. Briefly explain steps of troubleshooting a computer power supply. (05 Marks)
4. Draw a diagram to show the computer memory hierarchy. (06 Marks)
5. Briefly explain two(02) types of printers and provide two(02) examples for each type (08 Marks)

[Total 25]