



Higher National Diploma in Information Technology
First Year, First Semester Examination – 2018
HNDIT-1102 Computer Hardware

Instructions for Candidates:

Answer Four (04) Questions only

No. of Questions : 05

No. of pages : 03

Time : 02 Hours

Question 01

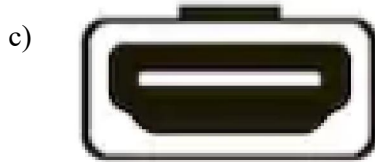
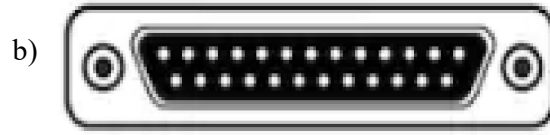
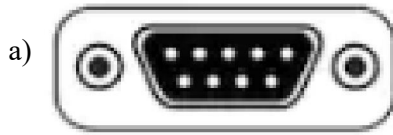
- 1) Give **two (02)** examples for Output Devices used in computers. (02 Marks)
- 2) Mention **three (03)** important characteristics of Computers. (03 Marks)
- 3) Compare and contrast Primary and Secondary Storage in Computer Systems. (04 Marks)
- 4) Identify the following abbreviations.
 - a) OCR
 - b) CPU
 - c) ALU
 - d) DVD
 - e) VGA(05 Marks)
- 5) Draw the block diagram of computer and show the data and control information flow in the same diagram. (11 Marks)

Question 02

- 1) Briefly explain 'Disk Partitioning'. (03 Marks)
- 2) Briefly explain the term 'Device Driver'. (04 Marks)
- 3) Describe the following two permission levels used in user access Rights in windows operating system.
 - a) Full Control
 - b) Read and Execute(04 Marks)
- 4) Describe the function of BIOS Program. (04 Marks)
- 5) Mention **four (04)** functions of Device Manager in Windows operating system. (04 Marks)
- 6) Explain the purpose of User Account and mention **three (03)** User Account types in Windows 7. (06 Marks)

Question 03

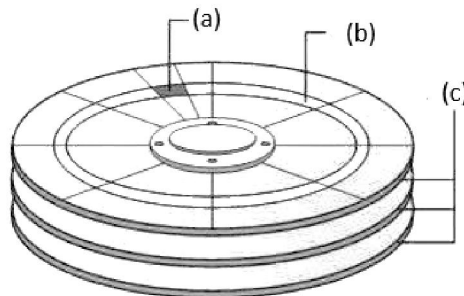
- 1) What is the purpose of CMOS Battery in a Motherboard? (02 Marks)
- 2) Identify and write the names of the following Computer Ports (03 Marks)



- 3) Give **two (02)** Touch Screen mechanisms. (04 Marks)
- 4) State **two (02)** devices which can be connected to PC motherboard with SATA port. (04 Marks)
- 5) Explain **three (03)** Advantages of Laser Printers with compared to Dot Matrix Printers. (06 Marks)
- 6) Briefly explain any **three (03)** health and safety precautions that should be taken during the assembly or disassembly of a Computer System. (06 Marks)

Question 04

- 1) Briefly explain the term 'Virtual Memory'. (02 Marks)
- 2) Write **one (01)** advantage of FAT 32 with compared to FAT 16 file system. (02 Marks)
- 3) The following Image shows the internal structure of a typical Hard Disk. (03 Marks)
Identify and write the names of the components marked as (a), (b) and (c).



- 4) Define the term "Volatile Memory". (04 Marks)
- 5) Provide **two (02)** examples of Mutable memory. (04 Marks)
- 6) Mention **two (02)** advantages of taking backups in computer systems. (04 Marks)

7) Compare and contrast LCD Display and CRT Display.

(06 Marks)

Question 05

1) Mention **two(02)** advantages of modular design approach in Computer Hardware.(02 Marks)

2) State **three(03)** expansion cards used in computers. (03 Marks)

3) What is a “**Plug and Play device**”? State two plug and play devices. (04 Marks)

4) Mention **four (04)** factors that affect the performance of a Processor. (04 Marks)

5) Briefly explain Multitasking and Multiprocessing. (04 Marks)

6) Describe the purpose of Leap Motion Sensor. (04 Marks)

7) Write the steps to do the following operations in Windows 7 Operating System. (04 Marks)

a) Create a New Folder in Desktop

b) Delete a File in Desktop