

COMPUTER WORKSHOP PRACTICE II

SECTION A (40 MARKS)

Attempt **ALL** the questions in this Section

- (a) (i) Define the term booting **(2 marks)**
(ii) Differentiate between warm and cold booting **(4 marks)**
(iii) State **two** functions of a CMOS setup program **(2 marks)**
- (b) Differentiate between:
(i) User files and System files (ii) RAM and ROM **(8 marks)**
- (c) (i) With examples, differentiate between operating system software and application software. **(4 marks)**
(ii) State any **four** services provided by the operating system software. **(4 marks)**
- (d) (i) Define windows file view **(1 mark)**
(ii) State any **four** file views in windows environment **(4 marks)**
- (e) (i) What is text editing **(2 mark)**
(ii) Outline any **three** windows based text editing programs **(3 mark)**
- (f) (i) What is meant by a User Account **(2 marks)**
(ii) Differentiate between administrator and standard user accounts **(4 marks)**

SECTION B (60 MARKS)

Attempt **ONLY THREE** Questions in this Section

Question 1

- (a) Identify **four** factors to consider when selecting a computer motherboard. **(4 marks)**
- (b) Name **four** safety best practices you may consider while working with computer component installations. **(4 marks)**
- (c) Explain how you would manually test a computer power supply to determine whether it is working or not. **(4 marks)**
- (d) (i) Give **two** advantages of SATA hard drive over PATA hard drive. **(4 marks)**
(ii) State **two** advantages and **two** disadvantages of SSD disk drive over the magnetic disk drive. **(4 marks)**

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Question 2

- (a) (i) What is multimedia? **(2 marks)**
(ii) With examples, differentiate between linear multimedia applications from non-linear multimedia applications **(4 marks)**
- (b) Give any;
(i) **two** advantages of compression of multimedia data **(4 marks)**
(ii) **two** disadvantages of compression of multimedia data **(4 marks)**
- (c) Identify **two** hardware and **one** software requirement features for a multimedia system involving a computer **(6 marks)**

Question 3

- (a) (i) What is disk partitioning? **(2 marks)**
(ii) Give three reasons why disk partitioning is necessary **(6 marks)**
(iii) What is the purpose of formatting a disk **(4 marks)**
- (b) Identify **two** important properties that make hard disks suitable for secondary storage of files in file systems **(4 marks)**
- (c) The strength of a folder and file naming convention is dependent on the naming structure and quantity of the data elements chosen to build it.
Give any **four** rules used in building the structure of a folder **(4 marks)**

Question 4

- (a) (i) What is disk fragmentation? **(2 marks)**
(ii) Name **two** processes that may cause disk fragmentation **(2 marks)**
- (b) What is contained in the following?
(i) *A boot-control block or partition boot sector* **(2 marks)**
(ii) *A volume control block or master file table* **(4 marks)**
(iii) *File Control Block* **(4 marks)**
- (c) (i) What are computer peripherals
(ii) How are the computer peripherals connected to the computer? **(4 marks)**
- (d) What is the purpose of having an extension slot on a computer motherboard?

(2 marks)

Question 5

(a) (i) What is equipment maintenance as regards to workshop practice? **(2 marks)**

(ii) Distinguish between preventive and corrective maintenance. **(4 marks)**

(b) (i) State any;

(i) **four** advantages of preventive maintenance. **(4 marks)**

(ii) **two** disadvantages of preventive maintenance. **(2 marks)**

(c) (i) With illustrations, distinguish between a network printer and a shared printer on a print server. **(4 marks)**

(ii) Suppose one of the users fails to print after ordering several print jobs.

As a technical person, explain the steps you would under take to identify and solve the problem **(4 marks)**