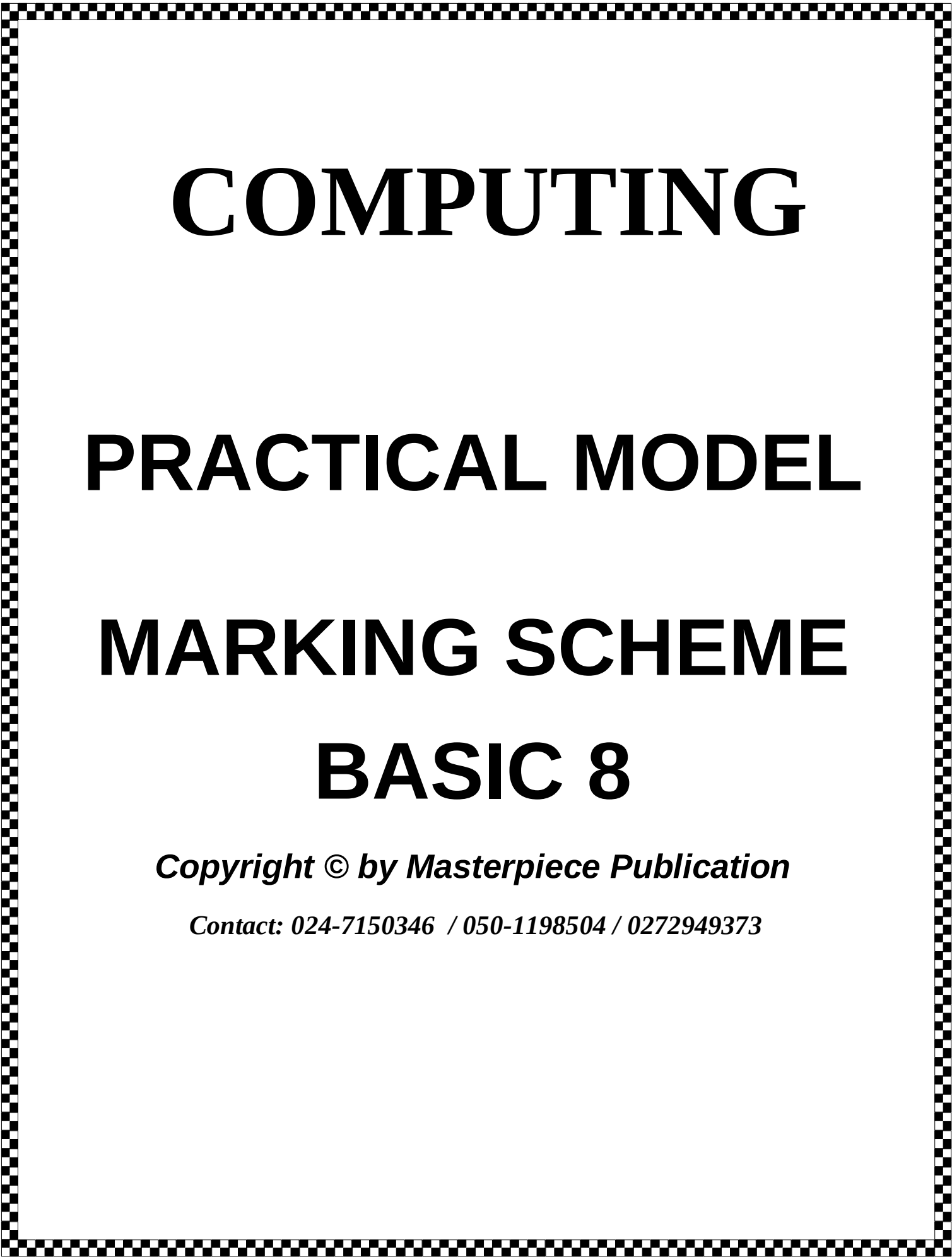


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COMPUTING

PRACTICAL MODEL

MARKING SCHEME

BASIC 8

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QUESTION 1

a) A – Laptop Computer B – Desktop Computer

b) Differences between A and B

- * A is small in size but B is large in size
- * A has limited number of internal hard disk but B has multiple internal hard disk
- * A has a smaller number of ports but B has a greater number of ports
- * A is portable but B is usually fixed in one place
- * A run on both battery and main power supply but B runs only on the main power supply.
- * A has inbuilt keyboard and touchpad but B uses external keyboard and mouse
- * A has low power consumption but B has high power consumption

c) Characteristics of fifth generation computers

- They use Ultra Large-Scale Integration (ULSI) microprocessors
- They use artificial intelligence software
- They have parallel processing capability
- They consume less power and generate less heat
- They have better speed and accuracy and are reliable.
- They are small in size and therefore portable
- They have huge storage capacity
- They understand natural human language

QUESTION 2

Name	Function
a) Hard disk / Hard disk drive	This is the main storage medium that keeps or stores operating system programs and other user files.
b) Random Access Memory	It is a temporary storage place for data or instructions to be processed by the microprocessor or central processing unit.
c) Central Processing Unit / Microprocessor	It is used to carry out the instructions sent to a computer system.
d) Read Only Memory	It is used to permanently store start up instructions for the computer.
e) Motherboard	It is the main circuit board that contains the primary components of the computer.

QUESTION 3

a) Computer system or Computer or Desktop computer system

b) **I** – Printer **II** – Monitor **III** – System unit / Chassis **IV** – Speaker
 V – Keyboard **VI** – Mouse pad **VII** – Mouse

- c) **II** - It is used to display information on a screen for the user.
- III** - It is the enclosure that contains the main electronic parts of a computer and protects them from the outside elements
- V** - It is used to input characters into the computer system.
- VII** - It is used to issue command and for drawing on the computer system.

QUESTION 4

Name	Function
a) Power supply / power pack / power supply unit	This is used to supply electric power to a computer system by converting alternating current to direct current.
b) CMOS battery	This is used to power the system clock on the computer.
c) Heatsink	This is used to cool the microprocessor and keep it from overheating.
d) Expansion card	It is used to add extra functionality to the computer system.
e) CD drive / DVD drive	This is used to read information from the Compact disc (CD) or the digital versatile disc (DVD).

QUESTION 5

a) Microprocessor or Central Processing Unit

b) i. Arithmetic Logic Unit

ii. Control Unit

iii. Registers

c) * Smartphones

* Microwaves

* Game consoles

* Television

* Alarm clock

* Dishwashers

* DVD players

* Automated Teller Machines

d) * It is used to fetch, decode and execute instructions.

* It is used to transfer data from one block to another block.

* It is used to provide control and timing to a whole system.

* It is used to perform mathematical operations

* It is used to perform logical operations

QUESTION 6

Name	Function
I) Barcode Reader	It is used to scan printed barcodes into the computer system.
ii) Radio Frequency Identification (RFID) Reader	RFID reader is a device used to wirelessly scan data that is stored on special tag or chips.
III) Optical Mark Reader (OMR)	It is used to read or scan pencil marks on papers that have multiple choice answers
IV) Optical Character Recognition (OCR)	It is used to read or scan individual characters of printed text into a computer system.
V) Magnetic Ink Character Recognition (MICR)	It is used to read text that has been printed with magnetized ink.

QUESTION 7

	Name	Area of usage	Use or Application
I	Magnetic Stripe Card Reader	Warehouse	It is used read information on access control cards.
II	Chip and Pin reader	Shopping mall	It is used to read data from credit card or debit cards for payment
III	Contactless card readers	Airports	It used to read electronic passports
IV	Quick Response (QR) code reader	Homes	It is used to scan a Link to directly open a website.
V	Graphic tablet	Publishing house	It is used for editing photos on the computer

QUESTION 8

Name	Function
a) Dot Matrix printer	• They are used to print output from POS terminals • They are used by ATMs for printing receipts. • They are used for printing invoices
b) LaserJet printer	• For printing fliers and brochures • For ticket printing • For printing posters
c) Thermal printer	• It is used to print bills or receipts • It is used for printing airline tickets. • They are used for printing barcodes
d) Plotter	• It is used to print computer-aided designs • It is used to print architectural blueprints • It is used for printing Banners and Billboards
e) 3D printer	• They are used to create prototypes for new products in the medical field • They are used for making jewelry products in the Art and Jewelry industry • They are used to produce tooling and manufacturing aids

QUESTION 9

a) Printer

b) It is used to transfer digital data onto a physical medium such as paper.

c) * Computers * Tablets * Digital camera * Smartphones * I-Pad * Television

* Automated Teller Machine (ATM)

d) i) Impact Printers

ii) Non-impact printers