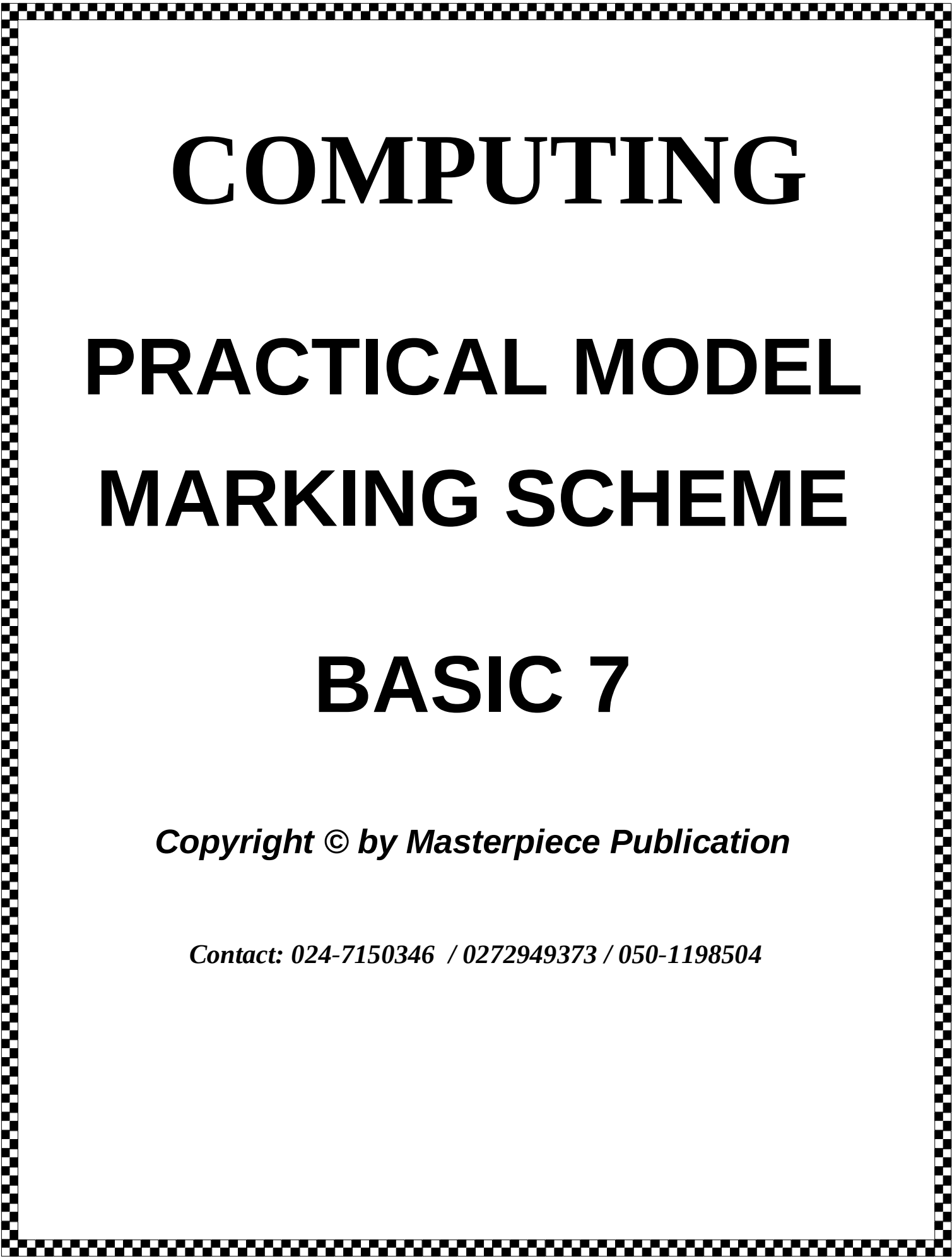


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COMPUTING

PRACTICAL MODEL

MARKING SCHEME

BASIC 7

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QUESTION 1

- a) I - System Unit II – Monitor III – Mouse IV – Keyboard
- b) II – The monitor is used to display pictures, text, video, and graphical data created by the system unit.
IV - The keyboard is used to input characters into the computer system.
- c) • They use Very Large Scale Integrated (VLSI) circuits technology.
• It uses microprocessor technology for processing.
• They have large primary storage capacity.
• They have high processing speed and reliability.
• They are small in size and portable.
• The fourth-generation computers can be networked.
• They generate less heat.
• They support multiple high-level programming languages.
• They are general purpose computers.

QUESTION 2

	Name	Function
a)	Heatsink	This is used to cool the microprocessor and keep it from overheating.
b)	Motherboard	It is the main circuit board that contains the primary components of the computer.
c)	Random Access Memory (RAM)	It is a temporary storage place for data or instructions for the CPU to process.
d)	Power Supply	This is used to supply electric power to a computer system by converting alternating current to direct current.
e)	Read Only Memory (ROM)	It is used to permanently store start up instructions for the computer.

QUESTION 3

- a) Microprocessor or Central Processing Unit (CPU)
- b) * Arithmetic Logic Unit * Registers * Control Unit
- c) * Arithmetic Logic unit (ALU): The ALU is used to perform the arithmetic and logic operations in the computer.
* Registers: It is used to store any temporary data that is needed by the arithmetic logic unit.
* Control unit: The control unit is used to direct the flow of data into and out of the microprocessor.
- d) * Washing machines * Microwave cookers * Dishwashers
* Electric kettles * Fridges * DVD players
* Smart television * Hairdryers * Electric toothbrushes
* Central heating systems * Burglar Alarm system * External Security lights
- e) * Cache * Register

QUESTION 4

	Function	Areas of usage
I	Optical Mark Reader is used to optically scan pencil or pen marks from a paper into a computer.	• Schools • Lottery offices
II	MICR is a device that is used to scan characters printed with a magnetic ink into a computer.	• Banks • Airports
III	OCR is used to scan handwritten or printed text on a piece of paper into a computer.	• Library • Post Offices
IV	Digitizer is used for sketching and tracing images digitally into the computer system.	• Advertising companies • Publishing companies
V	Barcode scanner is used to scan printed barcodes into the computer system.	• Shopping malls • Warehouses

QUESTION 5

a) Wireless Keyboard

- b)
- * It is easy to move around when using it
 - * It has ergonomic features that makes it comfortable to use
 - * It will help to maintain proper distance when using the computer
 - * It will prevent the cluttering of wires or cables

- c)
- * Optical Mark Reader
 - * Optical Character Reader
 - * Barcode Scanner
 - * Optical Mark Reader
 - * Magnetic Ink Character Reader

- d)
- * Bluetooth
 - * Infrared
 - * Wifi

e) It is a USB dongle which is connected system unit to enable the keyboard communicate with the computer system.

QUESTION 6

	Name	Function
I	Stylus	It is used to write or draw on a touchscreen.
II	Webcam	It is used to capture still pictures or motion video for transmission over the internet.
III	Touchpad	It is used to issue command and for drawing on the laptop computer.
IV	Joystick	It is used to control electronic games on the computer.
V	Light pen	It is used to draw and edit image directly on a touch screen monitor

QUESTION 7

	Name	Function
I	Touchscreen	This is used to visually issue instructions to the computer system by using the finger or stylus.
II	Keyboard	The keyboard is used to input characters into the computer system
III	Microphone	It is used to input sound into the computer in digital format
IV	Optical scanner	It is used to scan text or images directly into the computer system.
V	Mouse	It is used to issue command and for drawing on the computer system.

QUESTION 8

Input device	Manual or Automatic
a)	Manual
b)	Manual
c)	Automatic
d)	Manual
e)	Automatic
f)	Automatic
g)	Manual
h)	Automatic
i)	Manual
j)	Manual

QUESTION 9

	Name	Function
I	Plotter	It is used to print graphical output on paper.
II	Projector	It is used to project text, images, or video onto a screen and appear larger.
III	Printer	It is used to transfer digital data onto a physical medium such as paper.
IV	Speaker	It is used to produce audible sound from the computer.
V	Headset	It is used to listen to audio sound privately from a computer