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Provincial Department of Education - NWP

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Second Term Test - 2025

| **Grade 09** | INFORMATION AND COMMUNICATION TECHNOLOGY | **1 ½ Hours** |

Name / Index No. :

PART - I

- **Answer all the questions**.
- **Select and underline the most suitable answer to the questions given in Part I.**

(01) The person who designs and develops websites is,

    (1) Network Administrator   (2) System Analyst

    (3) Programmer   (4) Web Developer

(02) The devices used to store data and programs permanently are,

    (1) Input Devices   (2) Storage devices

    (3) Output devices   (4) Communication devices

(03) **Not** an input device,

    (1) Keyboard   (2) Mouse   (3) Scanner   (4) Printer

(04) Which port is used for computer networking?

    (1) Network port   (2) Communication port

    (3) USB port   (4) PS2 port

(05) A non-technical specification that is considered when buying a computer is,

    (1) Capacity of the main memory   (2) Capacity of the hard disk

    (3) Manufacturer warranty   (4) Monitor size

(06) This **does not** fall into the processor classification based on the number of central processing units (CPUs) in a processor.

    (1) Single Core   (2) Dual Core   (3) Third Core   (4) Quad Core

(07) **Not** a mobile computer,

    (1) All in one computer   (2) Laptop

    (3) Notebook computer   (4) Smart phone

(08) The capacity of main memory is measured by,

    (1) GHz   (2) GB   (3) bits   (4) Mbps

(09) A free and open source operating system is,

    (1) LINUX   (2) WINDOWS 8   (3) MAC OS   (4) OPERA

(10) A popular processor manufacturing company is,

    (1) DUAL   (2) PENTIUM   (3) AMD   (4) CORE

(2 x 10 = 20 marks)

PART - II

(01) Answer the questions given below.

(i) Mention two user requirements that can be fulfilled by a computer.

....

....

(ii) Write down one specification for each of the processor and the display that should be considered when purchasing a computer.

....

....

(iii) Write two types of monitors according to manufacturing technology.

....

....

(iv) Name two storage devices that can be connected to a USB port.

....

....

(v) Mention two non-portable computers.

....

....

(5 x 2 = 10 marks)

(02) Below is a spreadsheet segment prepared to calculate the cost of items purchased for the school computer lab. Answer the questions based on it.

	A	B	C	D	E
1		*Description about purchasing of goods*			
2	No.	Item	Unit price	Quantity	Cost
3	1	CD	Rs. 80.00	20	Rs. 1,600.00
4	2	DVD	Rs. 100.00	20	Rs. 2,000.00
5	3	KEY BOARD	Rs. 850.00	5	Rs. 4,250.00
6	4	POWER CABLE	Rs. 350.00	10	Rs. 3,500.00
7	5	MOUSE	Rs. 550.00	5	Rs. 2,750.00
8	Total				Rs. 14,100.00

(i) Write the formula that should be entered in cell E3 to get the cost of purchasing CDs.

....

(ii) Write the function that should be written in cell E8 to get the total cost of purchasing goods.

....

(iii) Write the function that should be written in cell C8 to retrieve the highest unit price among the purchased items.

....

(iv) What value is returned when the function = COUNT(A3:B7) is entered in cell B8?

....

(v) Write two formattings used for the letters in the first row of this spreadsheet segment.

....

....

(5 x 2 = 10 marks)

2

(03) Following is an incomplete flowchart prepared to output even numbers from 1 to 10. Select the suitable statements for the positions A to F from the brackets and fill in the given blanks.

(Is number less than or equal 10?, Start, Display number, number = number + 2, Yes, No)
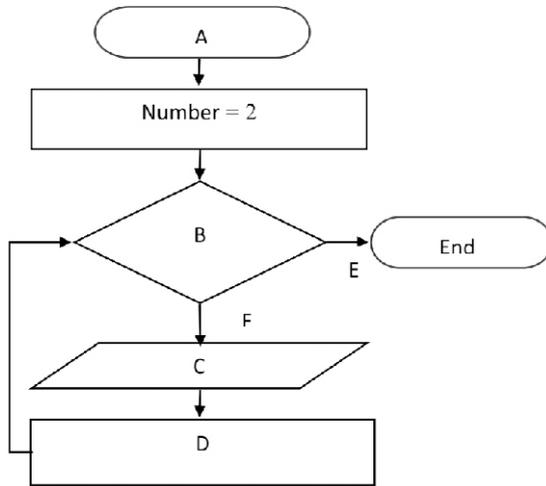
A. ....

B. ....

C. ....

D. ....

E. ....

F. ....

(5 x 2 = 10 marks)

(04) Match "A" with "B"

A	**B**
(1) Selecting one of two options based on a condition .	• Array
(2) Repetition with definite number of times	• repeat until
(3) Repeating till a given condition is satisfied	• repeat
(4) Repeating infinite number of times	• forever
(5) Store any number of items using a single variable name	• Simple selection

(5 x 2 = 10 marks)

(05) Below is a Scratch program designed to display the multiples up to 12th multiple of any given number. Select and write the suitable words from the brackets corresponding to the positions indicated by the letters A to E.

(answer, Multiple, 1, count, Enter the number)

A. ....

B. ....

C. ....

D. ....

E. ....

(5 x 2 = 10 marks)

3
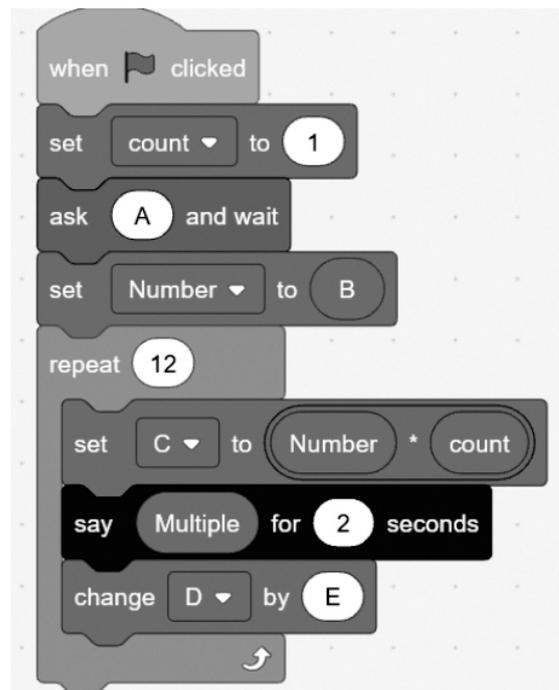
(06) Write suitable answers for the following questions.

(i) Name two components of a micro controller.

....

....

(ii) Name two micro controller kits.

....

....

(iii) Write down two devices which use microcontrollers.

....

....

(iv) What is a sensor?

....

....

(v) Name two types of Arduino boards used in present.

....

....

(5 x 4 = 20 marks)

(07) Name the numbered parts of the Arduino Uno board shown below using the appropriate words given in the brackets.

{Digital pins, Analog pins, DC power, Power Pins, MINI USB}
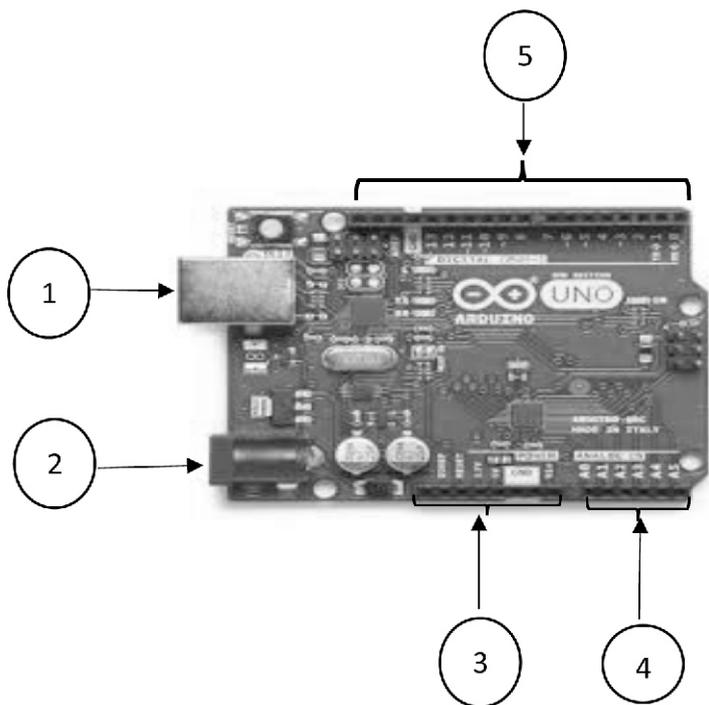
1. ....

2. ....

3. ....

4. ....

5. ....

(5 x 2 = 10 marks)

Answer Paper   Part - I

(01) 4   (02) 2   (03) 4   (04) 1   (05) 3

(06) 3   (07) 1   (08) 2   (09) 1   (10) 3   (2 x 10 = 20)

Part - II

(01) (i)   Preparing documents, Access internet etc.

(ii)   • Specification of the processor – Speed of the processor, Processor manufacturing company, Type of the processor

  • Monitor specification – Technology of the monitor, Size of the monitor

(iii)   Cathode Ray Tube monitor (CRT), Liquid Crystal Display Monitor (LCD), Light Emitting Diode) Monitor (LED)

(iv)   Flash memory, memory cards

(v)   Work station computers, Desktop computers, Server computers, All in one computers

(2 x 5 = 10)

(02) (i)   =C3*D3   (ii) =SUM(E3:E7)

(iii)   =MAX(C3:C7)   (iv) 5

(v)   Merge and center, Bold, Italic

(5 x 2 = 10)

(03) A - Start   B - is number less than or equal 10?

C - Display number   D - number=number + 2

E - No   F - Yes

(2 x 5 = 10)

(04)

	A		B
(1)	Selecting one of two options based on a condition.		• Array
(2)	Repetition with definite number of times		• repeat until
(3)	Repeating till a given condition is satisfied		• repeat
(4)	Repeating infinite number of times		• forever
(5)	store any number of items using a single variable name		• Simple selection

(1) → Simple selection
(2) → repeat
(3) → repeat until
(4) → forever
(5) → Array

(5 x 2 = 10)

(05) A - Enter the number   B - answer C - Multiple   D - Count   E - 1

(2 x 5 = 10)

(06) (i)   Central Processing Unit, Memory, System clock, Peripheral devices

(ii)   micro:bit, Arduino, Rasperry pi

(iii)   Washing machine, Microwave oven, Solar lamp, traffic light, computer printers, remote controls

(iv)   A device used to automatically obtain measurements related to changes in the external environment.

(v)   Arduino Uno, Arduino Mega, Arduino Nano, Arduino Micro

(5 x 4 = 20)

(07) (i)   MINI USB   (ii)   DC power   (iii) Power Pins

(iv)   Analog pins   (v)   Digital pins

(5 x 2 = 10)