B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST-I : 2025-26
ARTIFICIAL INTELLIGENCE

Class: VI **Time : 1 hr.**
Date: 05-07-2025 **Max Marks: 25**
Admission No. …… **Roll No. :……..**

ANSWER KEY

I. Multiple Choice Questions : **(8 X 1 = 8)**

(1) Which of the following is an input device ?
(a) Scanner (b) Printer (c) Speakers (d) Plotter

(2) Monitor is also known as the ……
(a) Visual Display Unit (b) Virtual Display Unit
(c) Video Data Unit (d) Virtual Data Unit

(3) …….. consists of the physical parts of a computer device.
(a) Software **(b) Hardware** (c) Instruction (d) None of the above

(4) Which of the following is a pictorial representation of an algorithm ?
(a) Pseudocode (b) Program **(c) Flowchart** (d) Algorithm

(5) Kite/Diamond shaped box in a flowchart is used for :
(a) Decision (b) Input (c) Output (d) Process

(6) Which one of the following is not a characteristics of a good algorithm ?
(a) Finiteness (b) Effectiveness **(c) Ambiguity** (d) Feasibility

(7) An algorithm is a set of step by step
(a) Skills (b) Formulae **(c) Instructions** (d) All of these

(8) In a flowchart, a calculation (process) is represented by :
(a) A rectangle (b) A rhombus (c) A Parallelogram (d) A circle

II. Classify the inputs and outputs from the below mentioned list for growing a fruit tree from a seed. **(3 X 1 = 3)**

(i) Water (ii) Sunshine (iii) Fruit

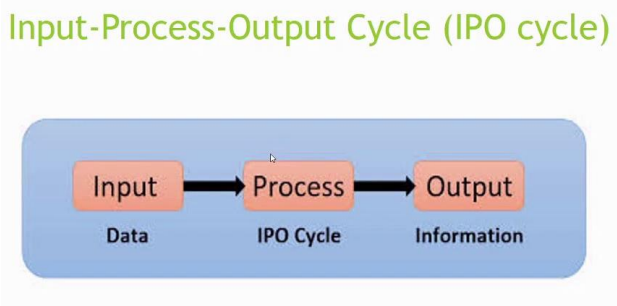
Ans. :

(i) Water = Input
(ii) Sunshine = Input
(iii) Fruit = Output

III. Short Answer Type Questions : **(4 X 2 = 8)**

(1) Explain the IPO cycle with diagram.

Ans : It is termed as Input – Processing - Output. A computer receives data as input, stores it and then produces output.



(2) Explain any two characteristics of a computer.
Ans :

(i) Speed : Computer can perform calculations and process information much faster than humans.
(ii) Storage : It has large storage capacity.
(iii) Accuracy
(iv) Diligence
(v) Reliability
(vi) Versatility

(3) Explain an algorithm using an example.
Ans : An algorithm is a step by step procedure of solving a problem. It is commonly used for data processing, calculation and other related computer and mathematical operations.

Example of Algorithm :

Step 1 : Take the ingredients

Step 2 : Mix ingredients

Step 3 : Pour ingredients mixture into a pan

Step 4 : Put it in an oven

Step 5 : Bake until ready

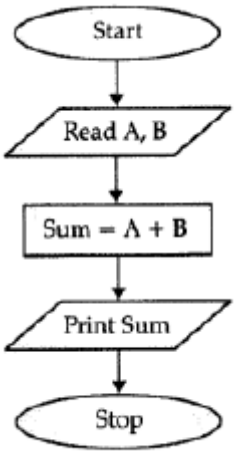
Step 6 : If ready, remove

Step 7 : Let it cool

Step 8 : Serve

(4) Draw Flowchart to find the sum of two numbers.

Ans. :



IV. Long Answer Type Questions : **(2 X 3 = 6)**

(1) Write the use of the following devices :

(a) Webcam (b) Microphone (c) Digital camera

Ans :

(a) Webcam : It is an input device which transmit pictures over the internet. It is used for video conferencing, and recording images.

(b) Microphone : It is used to record sounds using the computer. It is used for video conferencing.

(c) Digital Camera : It is a camera that produces digital images that can be stored on a computer, displayed on a screen and can be printed.

(2) Differentiate between an Algorithm and Flowchart.

Ans :

Algorithm	Flowchart
1. It is a step by step solution to the problem	1. It is also a step by step solution to the problem but in the pictorial form
2. In it, we use simple English	2. In it, we use a special symbol like an input, or output box
3. The algorithm provides either to the computer or to a human being an unambiguous instruction to solve a problem.	.3. It provides a better understanding of existing and prepared methods and procedures and systems.

********** ALL THE BEST **********