STD-VI
CHAPTER 7: PROGRAMMING BASICS

Instructions:-

1. Do the objective questions in book. Only answers of the objective questions are given below.
2. Write question and answers in the classwork copy.

1. Circle the correct option.

a. (ii) b. (i) c. (ii) d. (iii) e. (i)

2. Fill in the blanks.

a. algorithm b. connector c. flowchart

d. keywords e. loop

3. Match the flowchart symbol with its name.

a. (ii) b. (iv) c. (v) d. (i) e. (iii)

4. Put a tick (✓) for the correct statements and a cross (×) for the wrong ones.

a. ✓ b. ✓ c. ✓ d. × e. ×

5. Write the following steps of the algorithm to multiply two numbers in correct order.

Step 1: Start

Step 2: Read A, B

Step 3: Product = A * B

Step 4: Print Product

Step 5: Stop

6. Answer the questions.

Que1. Define algorithm.
Ans. An algorithm is a step-by-step process of solving any problem. It is an important step in developing a program.

Que2. List three guidelines that should be kept in mind for writing algorithms.
Ans. The three guidelines that should be kept in mind for writing algorithms are given below.
-An algorithm should be clear, precise and well-defined.
- It should always begin with the word 'Start' and end with the word 'Stop'.
- Each step should be written in a separate line.

Que3. Explain any three symbols used in a flowchart.
Ans. Input/output box: This symbol represents the input and output instructions in a flowchart.
Start/stop box: This symbol represents the beginning and the end of a flowchart.
Process box: This symbol represents the processing instructions in a flowchart.

Que4. What do you mean by a loop?
Ans. A sequence of instructions which is repeated again and again is said to be in a loop.

Que5. Mention four rules that you must follow while drawing a flowchart.
Ans. Four rules that must be followed while drawing a flowchart are given below.
-There can be only one start and one stop symbol in a flowchart.
- Only one flow line can be used with the start and the stop symbol.
- Only one flow line can come out from a process symbol.
- Only one flow line can enter a decision symbol and two flow lines come out from it.

Que6. What is pseudo code?

Ans. Pseudo code is an English-like representation of a program, independent of any other computer language. It is an outline of a program that can be easily converted into program instructions in any programming language.

Que7. Write an advantage and a disadvantage of pseudo code.

Ans. A pseudo code is closer to the programming code. Thus, it can be easily converted into the actual program. However, it is difficult to understand and manipulate pseudo code as compared to algorithm and flowchart.