Ch.7 Programming Basics

Q-1 Fill in the blank.

1) Machine language is also known as **first generation language or binary language**.

2) Natural language is often associated with **expert system** and **Artificial Intelligence**.

3) **Compiler** and **Interpreter** are language processor.

4) The **assembler** is a program used to translate assembly languages.

5) **Machine** language is known as first generation language.

6) **Procedural** language is known as third generation language.

7) **Non-procedural** language is known as fourth generation language.

8) **Natural** language is known as fifth generation language.

9) **Machine** language programs are machine-dependent.

10) **High Level** language programs are machine-independent.

Q-2 Tick the (✔) correct answers.

1) _____ language was used in the first generation of computers.

   a) Cobol   b) **machine**   c) Fortran

2) The step-by-step procedure to solve any problem is called _____

   a) Steps   b) **Algorithm**   c) Flowchart

3) The symbol denotes ⬭

   a) Processing box   b) **Start/stop box**   c) Input / Output box

4) The symbol denotes ▭

   a) Input / Output   b) Start/stop   c) **Process**

5) Which of the following is not an advantage of a flowchart?

   a) Better communication   b) **Improper documentation** c) Systematic testing

6) A set of instruction that should be followed to perform a specific task to solve such as problem solving.

   a) **Algorithm**   b) Flowchart   c) Pseudo code

7) A sequence of instructions that repeats itself a specified number of times until a particular condition is met.

   a) **loop**   b) condition   c) sequence

8) In how many categories, computer languages are classified?

   a) One   b) **Two**   c) Three

9) Which language does not need a translator?

   a) **Machine** b) Assembly c) Natural

10) _____ converts source program to machine language.

   a) **Language processor** b) Assembler c) None of these

Q-3 Write true or false.

1) High Level language is machine-independent. **True**

2) Assembler is used to translate the assembly language in to machine language. **True**

3) Natural Languages are associated with expert systems and AI. **True**

4) Flow chart is a step-by-step procedure to solve any task. **False**

5) High Level Languages directly understood by a computer without any translation **False**

6) Connector is used to join a part of a flowchart. **True**

7) Direction of flow, in a flowchart, should be from top to bottom and left to right. **True**

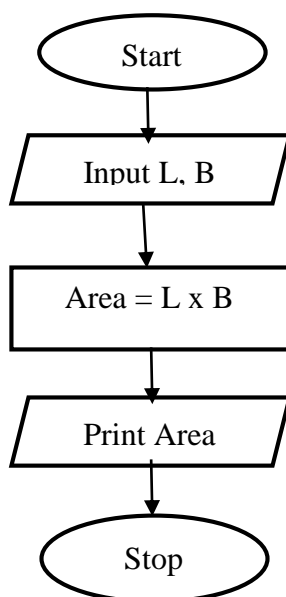## Q-4 Draw the flowchart for given algorithm.

1. **Algorithm**:

Step 1: Start
Step 2: Take two sides
Step 3: Calculate area by multiplying
       two sides
Step 4: Print the area
Step 5: Stop

2. **Algorithm:**

Step 1: Start
Step 2: Take two numbers
Step 3: Multiply two numbers
Step 4: Print the result
Step 5: Stop