- 1. What type of device is computer mouse?
 - a) Memory
 - b) Output
 - c) Storage
 - d) Input

Solution: (d) Input

- 2. Algorithm is
 - a) A process or set of rules to be followed in calculations or other problemsolving operations, especially by a human.
 - b) A process or set of rules to be followed to solve numerical problems only.
 - c) A process or set of rules to be followed in calculations or other problemsolving operations, especially by a computer.
 - d) A process or set of rules to be followed in to solve logical problems only.

Solution: (c) A process or set of rules to be followed in calculations or other problemsolving operations, especially by a computer

- 3. The lowest form of Computer language is
 - a) C
 - b) BASIC
 - c) FORTRAN
 - d) Machine language

Solution: (d) Machine language.

- 4. A 2D diagram to represent the steps to be followed to solve a problem is known as
 - a) Flow-chart
 - b) Pseudo-code
 - c) Both (a) and (b)
 - d) None of these

Solution: (a) A flow-chart is a representation of an algorithm using diagrams.

- 5. The correct sequence of memory access while running a computer program is
 - a) RAM \rightarrow DISK \rightarrow RAM \rightarrow CPU
 - b) CPU → DISK→RAM→CPU
 - c) DISK→RAM→CPU→DISK
 - d) DISK→RAM→DISK→CPU

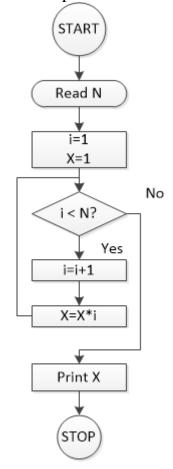
Solution: (a) While writing a program in terminal such as Turbo C, it is saved in RAM. Then we save the program in Hard Disk. While compilation, the compiler converts the high-level language to a machine level language and it is stored in RAM. The CPU access

the machine level language from RAM and show the output in the in/out port. Thus, the correct sequence is RAM→DISK→RAM→CPU

- 6. Which one of the following statement is the most appropriate?
 - a) Pseudo code is basically a diagrammatic representation of the algorithm. Whereas in flowchart normal English language is translated into the programming languages to be worked on.
 - b) Flowchart is diagrammatic representation of the algorithm. Pseudo code is just another name of algorithm.
 - c) Pseudo code is another name of programming. Whereas in flowchart is diagrammatic representation of algorithm.
 - d) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.

Solution: (d) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.

7. The input N from the user is 8. The output of the following algorithm is

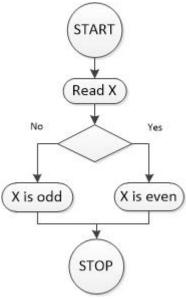


- a) 120
- b) 720

- c) 5040
- d) 40320

Solution: (d) The flowchart finds the factorial of the number 6. Hence, the right answer is 8!=40320

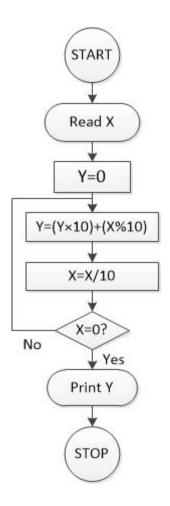
8. The following algorithm is used to find a number X is even or odd. What will be the content of the empty box?



- a) X%10=0?
- b) X/10=0?
- c) X/2=0?
- d) X%2=0?

Solution: (d) To find whether a number is odd or even, the number has to be divided by 2. If it is equals to zero, then the number is even. Thus, X%2=0? Condition is appropriate.

9. X is an integer (X=1234). The print value of Y of the flowchart below is



- a) 10
- b) 11223344
- c) 4321
- d) 0

Solution: (c) The algorithm finds the reverse of the number X. Hence, the output is 4321

- 10. The section of the CPU that selects, interprets and sees to the execution of program instructions
 - a) Memory
 - b) Register Unit
 - c) Control Unit
 - d) ALU

Solution: (c) Control unit of the computer helps in maintaining sequence of steps and execute the program