1. A linked list is a linear data structure where each element
2. Stores only data.
3. Stores data and a reference to the previous element.
4. Stores data and a reference to the next element
5. Requires random access for efficient operations

**Answer: C**

1. In asymptotic notation, we compute
2. Time complexity.
3. Space complexity.
4. Running complexity.
5. None of these

**Answer: A**

1. The minimum size of a MyNode in a singly linked list depends on the system architecture. Which of the following does not affect the minimum size of a MyNode in a singly linked list?
2. Size of the data stored in the MyNode (e.g., integer, string)
3. Number of elements in the entire linked list
4. System architecture (32-bit vs 64-bit)
5. Presence of a pointer to the next MyNode

**Answer: B**

1. The best case time complexity for traversing a singly linked list is \_\_\_\_\_ .
2. O(1)
3. O(n2)
4. O(n)
5. None of the above

**Answer: C**

1. A stream is
2. a library function
3. a system call
4. a source or destination of data that may be associated with a disk or other I/O devices
5. a file

**Answer: C**

1. Identify the token pasting operator.
2. +
3. ++
4. #
5. ##

**Answer: D**

1. Which of the following is the correct function prototype for the function main()?
2. main(char argc, char \*argv)
3. main(int argc, int \*argv)
4. main (int argc, int \*\*argv [] )
5. main(int argc,char \*argv[])

**Answer: D**

1. Identify the valid data type of the variable fraction in the following code.

typedef float HOST;

HOST fraction;

1. int and HOST
2. struct and HOST
3. enum and HOST
4. float and HOST

**Answer: D**

1. It is required to insert a MyNode at the end of a singly connected linked list having n MyNodes.

How many MyNodes are to be traversed for this insertion?

1. 1
2. n/2
3. n
4. none of these

**Answer: C**

1. n elements of a queue are to be reversed using another queue. The number of add and remove operations required to do so is
2. 2 x n
3. 4 x n
4. n
5. The task cannot be accomplished.

**Answer: B**