GLS UNIVERSITY
Subject: Data Structure
BCA Sem – III
Theory Assignment III

Q-1 Fill in the Blanks:

1. A_____is a sequence of data structures which are connected together vialinks.
2. Each link contains a connection to another_____.
3. Each Link of a linked list contain a link to next link called_____.
4. In linked list each node can be divided into_____parts.
5. First node of the linked list is known as _____.
6. _____field stores address of the next data item in the LinkedList.
7. Last Link carries a Link as_____in the singly linkedlist.
8. _____type of linkedlist can be navigated forward and backward way.
9. In_____type of linkedlist last item contains link of the first element as next and and first element has link to last element asprev.
10. _____and_____type of applications can be created using linked list.

Q-2 True or False:

1. Linked list is a non-primitive data structure.
2. Each Link of a linked list can store a data called an element.
3. A LinkedList contains the connection link to the first Link called First.
4. Each node can be divided into one part.
5. Linked Field is the actual value that is stored and processed.
6. Data Field is the address of the next data item in the Linked List.
7. Each Link carries a data field(s) and a Link Field called next.
8. Int Singly linked list Last Link carries a Link as not null to mark the end of the list.
9. In doubly linked-list Items can be navigated forward and backward way.
10. In single linked-list Item Navigation is backward only.

Q-3 Answer the following questions:

1. What is linkedlist ? Explain with example.
2. Explain the types of linked-list.
3. Explain structure of the linked-list.
4. Explain the representation of linked-list.