

S.S.M.S's  
S.B.B. alias Appasaheb Jedhe Arts, Commerce & Science College  
Internal Examination Sept 2016

Data Structures  
S.Y.B.Sc (Computer Science)

Mark-10

A] Attempt any ten

[10x1=10]

- 1 - A pivot element to partition unsorted list is used in  
A - Merge Sort  B - Quick Sort C - Insertion Sort D - Selection Sort
- 2 - A procedure that calls itself is called  
A - illegal call above B - reverse polish C  - recursive D - none of the
- 3 - A linked-list is a dynamic structure  
 A - true B - false
- 4 - What will be the postfix expression for following infix expression  $b * c + d / e$   
 A - bc\*de/+ B - bcd\*e/+ C - bc\*de+/ D - b\*cde/+
- 5 - Which of the following linked list below have last node of the list pointing to the first node?  
 A - circular doubly linked list B - circular linked list  
C - circular singly linked list D - doubly linked list
- 6 - A balance factor in AVL tree is used to check  
A - what rotation to make. B - if all child nodes are at same level.  
C - when the last rotation occurred.  D - if the tree is unbalanced.
- 7 - The following formular is of  
 $\text{left\_subtree (keys)} \leq \text{node (key)} \leq \text{right\_subtree (keys)}$   
A - Binary Tree B - Complete Binary Tree  
 C - Binary Search Tree D - All of the above
- 8 - Which one of the below mentioned is linear data structure -  
A - Queue B - Stack C - Arrays  D - All of the above
- 9 - What data structure is used for depth first traversal of a graph?  
A - queue above  B - stack C - list D - none of the
- 10 - In the deletion operation of max heap, the root is replaced by  
A - next available value in the left sub-tree. B - next available value in the right sub-tree.  
C - any random value from the heap.  D - last element of the last level
- 11 - Which of the following ways is a in-order traversal?  
A - Root->left sub tree-> right sub tree B - Root->right sub tree-> left sub tree  
C - right sub tree-> left sub tree->Root  D - left sub tree-> root->right sub tree
- 12 - In a heap, element with the greatest key is always in the \_\_\_\_\_ node  
A - leaf  B - root C - first node of left sub tree D - first node of right sub tree