

 $(5 \times 10 = 50)$

(CBCS) (F + R) (2014-15 and Onwards) and a second COMPUTER SCIENCE – II Data Structures

ny four string handling functions.

70 sand algorithm for Binary Search Techniques:

Instruction: Answer all the Sections. no elebe of multipola no elive (d.

15. a) Write a C program to Implement hubble of A – NOITOBS

Answer any ten questions. Each question carries two marks. (10×2=20)

a) Explain various types of Queues

In order: EACKEHDBG

- 1. What is non-linear data structure? Give an example, marpoid O a striW (d
- 2. Define complexity of algorithms.
- 3. Write an algorithm to traverse linear arrays if it is a specific second of the following post fix arrays are specifically as a specific second of the following post fix arrays are specifically as a specific second of the following second of the fixed post fixed
- 4. What is garbage collection?

 18. a) Write an algorithm to insert an element into a circular queue.
- 5. Define Queue.
- 6. Compare linear search and Binary search methods.
- 7. Write the difference between Stack and Queue engal laitneupes nialox 3 (d
- 20. a) Briefly explain various tree traversal methods with dark and an ended with the state of t
- 9. What are the applications of Trees ? easily tree given their p? sant an applications of Trees ?
- 10. Define walk and Trail in a graph.
- 11. Define circular Queue.
- 12. Define:
 - a) Degree of a Tree
 - b) Binary Tree.



Il Semester B.A./B.Sc. Examination, May/June 2018 (CB.sarian 01 seiras noitseup day seiras) (CB.sarian 01 seiras noitseup day day seiras noitseup)
b) Briefly explain any four string handling functions.	1
14. a) Write an algorithm for Binary Search Techniques.	5
15. a) Write a C program to implement bubble sort.	6
16. a) Explain various types of linked lists.b) Write a C program for tower of Hanoi problem.	5
b) Evaluate the following post fix expression : 9219VB1 of mothogla na 9thW . 8	5
b) What is deque? Explain the types of deque.	5
19. a) Explain Deput hist search Graph haversals.	5
8 Define complete Cycle	6
Pre order: FAEKCDHGB In order: EACKFHDBG.	4