B.C.A Under CBCS with effect from Academic Year 2016-2017 (Revised in April, 2016)

BCA II Year IV Semester

UNIX

Time: 3 hrs  Max: 75 Marks

SECTION-A

Answer any Five Questions: 5x 5 = 25 Marks

1. What CPU Scheduling in Unix?

2. What kernel? Briefly describe Unix kernel?

3. List and describe the UNIX redirection operators?

4. Explain online and offline communication in Unix?

5. Briefly describe any six operations that can be performed using SED?

6. How to construct a shell program in Unix?

7. Give a brief description on AWK programs?

8. Explain Booting system in Unix?

SECTION-B

Answer ALL of the following Questions 5x 10 = 50 Marks

9.  (a) Explain Features of Unix
    (b) Explain Architecture of Unix Operating Systems?

10. (a) Explain any five commands in Unix with syntax?
     (b) Explain Login and Logout procedure in Unix?

11. (a) Explain Different file permission modes in Unix?
     (b) How to sort files in Unix? Explain the procedure?

12. (a) Discuss about VI Editor? What are the available modes?
     (b) Explain Line Editor Ex and Ed in Unix?

13. (a) Explain Shell Programming?
     (b) Explain Backup and Restoring methods in Unix?
SECTION-A
Answer any Five Questions: 5x 5 = 25 Marks

1. Explain difference between linear and non linear data structures?
2. What is Array? How to create array in Java?
3. What is Recursion explain with example?
4. Explain about structure of Doubly Linked List?
5. Briefly explain about DEQUEUE?
6. What is Heap Tree?
7. Briefly explain about Minimum Spanning Tree?
8. Write algorithm for Bubble Sort?

SECTION-B
Answer ALL of the following Questions 5x 10 = 50 Marks

9. What is Multidimensional Array? Write a program for matrix multiplication in Java?
   (Or)
   Explain about creation, insertion and deletion operations on Single linked list?

10. What is Stack? Explain PUSH, POP and DISPLAY operations on Stack?
    (Or)
    What is Queue? Explain insertion, deletion and display operations on Queue?

11. What is Binary Tree? Explain inorder, preorder and postorder traversal algorithms on Binary tree?
    (Or)
    What is Binary Search Tree? Explain insertion and deletion of node operations on Binary Search Tree?

12. What is Graph? Explain about Adjacency Matrix and Adjacency List representations of Graph with examples?
    (Or)
    Explain about BFS (Breadth First Search) algorithm on Graphs with example?

13. Explain about Quick Sort algorithm with example?
    (Or)
    Explain about Binary Search algorithm with example?
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B.C.A. DEGREE EXAMINATION   II year IV semester
WEB PROGRAMMING
Model Paper

Time: 3 hrs   Max: 75 Marks

SECTION A
Answer any Five Questions:  5x 5 = 25 Marks
1. Explain about WWW?
2. What is E-mail? Explain advantages of E-mail?
3. Explain difference between static webpage and dynamic web page?
4. Briefly explain about CGI?
5. What is ASP? Explain with example program?
6. Write short notes on Java Applets?
7. Explain about E-commerce?
8. Explain about basic syntax rules of XML?

SECTION-B
Answer ALL of the following Questions  5x 10 = 50 Marks
9. Explain about FTP and TELNET protocol?
(Or)
Explain about Web Browser Architecture?

10. Write a HTML program to create FORM to enter student data?
(Or)
What is Cascading StyleSheet (CSS)? Explain different types of Style Sheets?

11. Explain about ASP Objects?
(Or)
Explain Servlet Life Cycle with example program?

12. What is CORBA? Explain about RMI (Remote Method Invocation)?
(Or)
What is EDI? Explain about EDI Architecture?

13. Explain about XML Parsers?
(Or)
What is WAP? Explain about WAP Architecture