BCA-13   Operating System-II

SET : 1

Section-A
(Very Short Answer Questions)

1.   (i) Give some examples of Open Source Operating System.
   (ii) What is GNU?
   (iii) What is the use of man command in linux.
   (iv) What is thread?
    (v) What is Open Source Software?
   (vi) What is BASH.
   (vii) What is use of chmod command?
   (viii) What is Sticky Bit?
   (ix) List the issue in designing Distributed OS?
   (x) What is Virtual Memory?

Section-B
(Short Answer Questions)

2. Compare su, sudo and gksu..
3. Write the steps of the following in linux OS:
   a. Creating an account.
   b. Changing the time.
4. What is the role of chmod command explain with example and syntax.
5. Differentiate between /etc/passwd and /etc/shadow File.
6. What is daemon? Explain the NFS and NIS daemons with their functionality.
7. Explain the following:
   a. File Handles
   b. Mount Protocol
   c. Hard & Soft mounts
8. Explain different models of Distributed Computing.
9. What do you mean by File System? Explain NFS in brief

Section-C
(Long Answer Questions)

10. What are the advantages of using Linux Operating System? Explain its file structures
11. Given the following queue -- 95, 180, 34, 119, 11, 123, 62, 64 with the Read-write head initially at the track 50 and the tail track being at 199. In contrast with the question discuss various Disk Scheduling algorithms.
12. What is Shell Script? What are the conditional statements in Shell script? Explain with example.
13. Explain failure handling during Inter Process Communication with neat diagram.

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SET : 2

Section-A
(Very Short Answer Questions)

1. (i) What is the use of ls command?
    (ii) Give name of five operating systems.
    (iii) What is the Shell?
    (iv) Define Turnaround Time?
    (v) What is Inode?
    (vi) What is the memory hierarchy?
    (viii) What is polling?
    (viii) Define interrupt.
    (ix) What is advantage of buffering?
    (x) Define Trojan horse?

Section-B
(Short Answer Questions)

2. How Linux Operating system is different than Unix and Windows?
3. Describe three different ways of setting the permissions on a file or directory to r—r—r—. Createa file and see if this works?
4. How is it that the /etc / passwd file is updated by ordinary user, using passwd command, even though the file does not have write permission?
5. How concurrency is controlled in distributed system.
6. What is Remote Procedure Calls (RPCs)? Explain its working.
7. What are the advantages and disadvantages of distributed approach in comparison to centralized approach?
8. Identify the features of good Message Passing System.
9. What is segmentation? Explain address translation in segmentation.

Section-C
(Long Answer Questions)

10. What is a NTFS system? Compare NTFS and FAT system.
11. Explain Audio and video compression in detail.
12. What is Real time Operating System? Explain features of real time kernel.
13. Explain the use of Page replacement Polices used in Operating System with Example.