

BCA-13
June - Examination 2016
BCA Pt. III Examination
Operating System II
Paper - BCA-13

Time : 3 Hours]

[Max. Marks :- 100

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A

10 × 2 = 20

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) What are the goals of RPC?
- (ii) What are the desirable characteristics of RTOS?
- (iii) What is the role of Buffering?
- (iv) Name different File System issues
- (v) List out some reasons for process termination.
- (vi) Which of the disk scheduling techniques has a drawback of starvation?
- (vii) What is daemon?

- (viii) How the time is set and shown in Linux?
- (ix) Write any one difference between NTFS and FAT32.
- (x) Virtual Memory is commonly implemented by which technology?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Explain the shell structure and kernel of Linux.
- 3) How Linux is different from Unix and Windows?
- 4) Experiment with the options on the ls command. What do the d, i, R and F options do?
- 5) What is the conditional statement in shell scripting? Give an example.
- 6) How an account of user is created in Linux?
- 7) 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?
- 8) What do you understand by NFS and NIS? Explain in brief about these services.
- 9) List down various application areas where distributed computing is used.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) Write down the possible problems in IPC due to different types of system failures.
 - 11) Explain the different models of Distributed Computing.
 - 12) Write script to determine whether given command line argument (\$1) contains "*" symbol or not, if \$1 does not contains "*" symbol add it to \$1, otherwise show message "Symbol is not required".
 - 13) What do you mean by distributed computing? Discuss security issues in distributed system.
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