

**BCA-13****B.C.A. Examination, June-2015**

Operating System-II

**BCA-13***Time : Three 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**

(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 is GUI ?
- (ii) What is shell ?
- (iii) What is Open sources?
- (iv) What is directory in Linux operation system?
- (v) What is super user in Linux ?

(vi) Where does the Linux store passwords of its various users?

(vii) What is file system?

(viii) What is Location transparency?

(ix) What is marshalling?

(x) What is a real-time system?

### Section-B

(Short Answer Questions)

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

10×4=40

2. Write a shell script to add two numbers given as command line arguments.
3. What is i-node? Explain its role in file system in Linux.
4. What is difference between hard real-time system and soft real-time system?
5. Explain the command `chmod` in Linux operating system with various options.
6. Explain any one compression technique, and mention in which type of applications it is suitable.
7. Explain any one technique used for Disk Scheduling.
8. Write a comparative note on distributed file system and 'network file system'.

(2)

BCA-13/ 100 /4

9. Explain any one technique for encryption and decryption.

### Section-C

(Long Answer Questions)

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

20×2=40

10. Explain why the Linux operating system is considered to be more secured than others.
11. Explain the working of remote procedure call.
12. Compare internals of Windows Operating system with Linux Operating system.
13. Explain how failures are handled in message passing.

—X—

(3)

BCA-13/ 100 /4