

**BCA-13**  
June - Examination 2018  
**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 is the full form of GNU?
- (ii) Name any two open source operating system.
- (iii) What is the use of **man** command in LINUX?
- (iv) Name the elements of multimedia system.
- (v) Why files are replicated in DFS?
- (vi) Explain **\$chmod 666 ex1** command.
- (vii) What are the content of **\etc** directory?
- (viii) List the benefits of distributed system over centralized system.

- (ix) Define DCE cloud.
- (x) How can you identify system shell variable? Give example.

**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) What is Shell? Explain various types of shells in detail.
- 3) Differentiate between password file and shadow password file in LINUX.
- 4) How user can have access to administrative operations? Write the steps.
- 5) What is distributed memory management? Discuss the advantages and disadvantages of DMM.
- 6) Describe the basics of implementing RPC mechanism.
- 7) Explain the comparison between NTFS and FAT.
- 8) Write short note on light weight RPC.
- 9) What is buffering? Explain various buffering strategies.

**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) Compare SCAN and C-SCAN disk scheduling algorithms. Read write head is at 45. The requests are 63, 52, 01, 93, 72, 13, 81 and 54 (8 requests). Compare total movement of R/W head.
- 11) What is DFS? Explain various features of distributed file system.
- 12) What is IPC? How failures such as a node crash or communication failure can be tackle in IPC? Explain.
- 13) What is Multimedia? Discuss few application areas of multimedia.

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