

**BCA-13**

December - 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) List any two advantages of Linux.
- (ii) Give any two difference between Distributed Systems and Parallel Computing.
- (iii) What is the use of **ls** command in LINUX?
- (iv) Name any two shells in LINUX.
- (v) List down any two application areas where distributed computing is used.
- (vi) What is the full form of NTFS?
- (vii) What do you mean by Video Compression?

- (viii) List the features of a good Message Passing System.
- (ix) List four applications of multimedia.
- (x) What do you mean by Null Buffering?

**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 process of creating a new user in the UNIX system.
- 3) Differentiate among **su**, **sudo** and **gksu** in LINUX.
- 4) Explain **chmod** command with syntax and example. A file has got the protection 744(octal). What protection does it really have?
- 5) Explain the working of Remote Procedure Call (RPC).
- 6) Why Security is needed in Distributed Environment? Explain various hardware and software architectures are used for distributed computing.
- 7) What are the desirable characteristics of RTOS? Explain.
- 8) Write short note on design principle of Andrew File System (AFS)
- 9) What is Distributed File System? Explain various features of good DFS.

**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) Explain the file and directory structure of LINUX in detail.
  - 11) What is Network Information Service (NIS)? Explain NIS Server and Client in brief.
  - 12) What is Distributed Operating System? Explain the various issues in designing a Distributed Operating System.
  - 13) How failure are handled during Interprocess Communication? Explain the complete process.
- \_\_\_\_\_