RAN-1911000102030001

F.Y.B.C.A. (Sem-II) Examination

November / December - 2019

Paper-203 : Operating System-I

Time: 3 Hours]   **[Total Marks: 70**

સૂચના : / Instructions

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of ☛ signs on your answer book

Name of the Examination:

☛ **F.Y.B.C.A. (Sem-II)**

Name of the Subject :

☛ **Paper-203 : Operating System-I**

Subject Code No.: **1911000102030001**

Seat No.:

Student's Signature

1. All questions are compulsory.
2. Do not interchange sub questions.

Q:1   **Answer the following question. (Any seven)**   **[14]**

1. Define an operating system. What is primary goal of OS?
2. Differential between multiprogramming and multitasking
3. List out attributes of file.
4. Explain the role of Kernel in Linux.
5. Differentiate between SCAN and C-SCAN disk scheduling policy.
6. What do you mean by block device?
7. List out the basic features of Linux.
8. Define the absolute and relative path.

Q:2 [A] Explain Batch Operating System with its advantages and drawbacks.   **[7]**

[B] Discuss two-level directory structure in detail. Also discuss advantages   **[7]**
of two-level directory structure over single-level.

OR

[B] Discuss different operations that can be performed on file.   **[7]**

Q:3 [A] Discuss different configuration services settings provided by System Config Services Package in Linux. **[7]**

[B] Write a note on disk space management. **[7]**

OR

[B] Explain Components of Linux. **[7]**

Q:4 **Answer any two.** **[14]**

a) Explain Time sharing system with its advantages and disadvantages.

b) Write a note on version of Linux OS.

c) Discuss linked allocation method with its advantages and disadvantages.

Q:5 [A] suppose a disk drive has 200 cylinders number from 0 to 199. Drive is currently served the request at cylinder no 85. The queue for pending request in FIFO order is as follows: **[7]**

10 36 139 88 68 174 132 120 64 40 31 6

Show the disk scheduling for the following algorithm

I) FCFS

II) LOOK

III) SCAN

IV) SSTF

[B] Write a note on to manage user account in Linux. **[7]**

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