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RAN-1911000102030001**F.Y.B.C.A. (Sem-II) Examination****January - 2021****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.:

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Student's Signature

- (1) All questions are compulsory.
- (2) Do not interchange sub questions.

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

1. List out different version of Linux.
2. What is index allocation method?
3. What are disadvantages of tree level directory structure?
4. What is file? List out basic types of file.
5. What is boot block?
6. Explain real time operating system.
7. What are attributes of files?
8. What is external and internal fragmentation?

Q:2 [A] Explain Multithreading Operating System.**[7]****OR****[A] Explain Time sharing Operating System.****[7]****[B] Explain the Acyclic Directory Structure in detail.****[7]**

Q:3 [A] Explain element of Linux Operating System. [7]

[B] Explain maintaining user account in Linux Operating System. [7]

OR

[B] Explain operations of file in detail. [7]

Q:4 [A] Explain free space management. [7]

[B] Explain advantage of any one allocation method of disk in detail. [7]

OR

[B] Explain system configuration services of Linux. [7]

Q:5 [A] Suppose that a disk drive has 200 cylinders, numbered 0 to 199. [10]
The disk drive is currently serving at cylinder 35, the queue of
pending request, in FIFO order is

155, 120, 12, 180, 73, 5, 125, 148, 190, 50, 47, 23

Show the disk scheduling for the following algorithms?

(1) FCFS (2) LOOK (3) SCAN (4) SSTF

From the above which is best algorithm?

[B] Explain Spooling. [4]
