



RAN - 1911000102030001

RAN-1911000102030001**F.Y.B.C.A. 2nd Semester Examination****March / April - 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. 2nd Semester

Name of the Subject :

Paper- 203: Operating System-I

Subject Code No.: 1911000102030001

Seat No.:

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Student's Signature

Instructions:

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

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

- a) Define multitasking operating system.
- b) Explain the purpose of distributed Operating System.
- c) Differentiate between Kernel mode and user mode in Linux..
- d) Does contiguous allocation suffer from external fragmentation? Justify your answer.
- e) What is the role of shell in Linux OS?
- f) Is it possible to recover Bad blocks? How?
- g) What is file? Which type of information stored in a file?
- h) List out operation performed on file.

Q: 2 [A] Discuss the real-time operating system in detail.**[7]****[B] Write a note on multi-user operating system.****[7]****OR****[B] Differentiate between sequential and relative access.****[7]****RAN-1911000102030001]****[1]****[P.T.O.]****P0420**

Q: 3 [A] Explain installation of Linux OS. [7]

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

OR

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

Q: 4 Answer any two [14]

a) List and explain different characteristics of I/O devices.

b) Different between Linux and Window OS.

c) Explain Indexed allocation method in detail.

Q: 5 [A] Suppose a disk drive has 200 cylinders number from 0 to 199.
Drive is currently served the request at cylinder no 68. The queue for
pending request in FIFO order is as follows: [7]

22 40 26 127 140 175 43 88 62 131 112 91

Show the disk scheduling for the following algorithm

I) FCFS II) LOOK III) SCAN IV) SSTF

[B] Explain feature of Linux OS. [7]
