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.:

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]**

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]**

———