Roll	No.	:	
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Total No. of Questions: 11]

[Total No. of Printed Pages : 3

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B.C.A. (Part-II) Examination, 2023 OPERATING SYSTEM

Paper - BCA-202

Time: 3 Hours] [Maximum Marks: 70

Section-A (Marks: $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit **50** words). Each question carries **2** marks.

Section–B (Marks : $4 \times 5 = 20$)

Note: Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

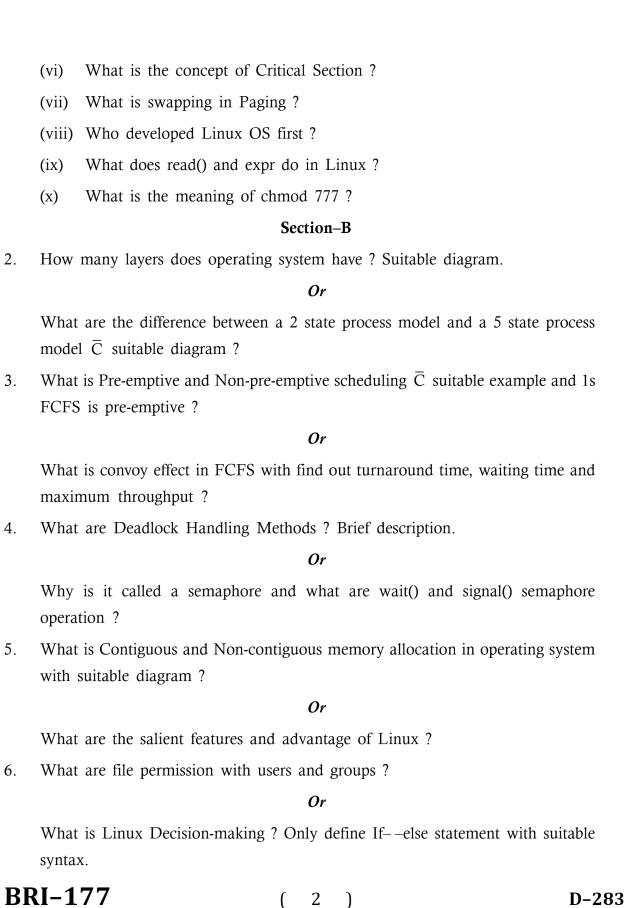
Section–C (Marks : $10 \times 3 = 30$)

Note:— Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- 1. (i) What is a operating system in Computer?
 - (ii) Why PCB is used in Operating System?
 - (iii) What is meant by Pre-emptive Scheduling?
 - (iv) What is waiting and response time?
 - (v) What is the necessary condition to avoid deadlock in system?

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Section-C

- (i) System calls
- (ii) Types of schedulers
- (iii) Context switch
- (iv) Functions of operating system
- 8. Describe the following:
 - (i) MLQ with feedback scheduling
 - (ii) Shortest job first algorithm
- 9. Describe Banker's Algorithm.
- 10. How to implement page replacement technique–FIFO with Belady's anomaly, given preference string using 3 frame to find out page fault?

- 11. What do you mean by shell script and its variable with the following commands?
 - (i) cat
 - (ii) pwd