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-III Due of Part-II (Supplementary) Examination, 2022

OPERATING SYSTEM

Paper: BCA - 202

Time: 1½ Hours] [Maximum Marks: 70

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

Note: Answer all ten questions (Answer limit 50 words). Each question carries2 marks.

Section–B (Marks : $4 \times 5 = 20$)

Note: Answer all five questions. Each question has internal choice (Answer limit200 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 do you mean by Thread?
 - (ii) Define context switch.

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	(iii)	What is Semaphore ?	
	(iv)	What is Multitasking/Time sharing O.S. ?	
	(v)	What is Deadlock ?	
	(vi)	What is Synchronization ?	
	(vii)	Define read and expr.	
	(viii)	Define shell variable.	
	(ix)	What do you mean by Segmentation ?	
	(x)	Define the mkdir, pwd command.	
		Section–B	
2.	Expla	ain the layered structure of O.S.	
		Or	
	Expla	ain the process state.	
3.	Expla	ain the scheduling criteria.	
		Or	
	Expla	ain pre-emptive scheduling with example.	
4.	Expla	ain the characteristics of Deadlock.	
		Or	
	Expla	ain the Banker's Algorithm.	
5.	Expla	ain the physical and virtual address space.	
		Or	
	What	t is Paging ? Explain it.	
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6. Explain the users and groups in Linux.

Or

Explain the decision-making statement.

Section-C

- 7. What is Process? Explain the PCB (Process Control Block).
- 8. What is Scheduling? Explain the FCFS, Round robin and SJF scheduling.
- 9. Explain the critical section requirements and its problem.
- 10. What is virtual memory? Explain the concept of Page Replacement Algorithm Technique (FIFO).
- 11. Write a shell program to print the factorial number.