

2021/TDC/CBCS/ODD/ BCACC-302T/018

TDC (CBCS) Odd Semester Exam., 2021

COMPUTER APPLICATION

(3rd Semester)

Course No.: BCACC-302T

(Operating System)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any ten questions:

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 $2 \times 10 = 20$

- 1. Define OS. Give an example of single-user OS.
- 2. What is multithreading? Write the advantages of multithreading.

(Turn Over)



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3.	Write	the	importance	of	system	Cans.
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- 4. Distinguish between internal and external fragmentations.
- 5. What is segmentation?
- 6. How does best fit memory allocation work?
- 7. What is device management of operating system?
- 8. In what way software clock differs from hardware clock?
- 9. Why is interrupt mechanism important in OS?
- 10. Write the different attributes of a file.
- 11. Why is OS security important?
- 12. What is mounting of file system?
- 13. What is critical section problem?
- 14. How can a deadlock be avoided? 20 object
- 15. Define semaphor. What are its two atomic operations?

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Ans	swer any <i>five</i> questions: 6×5=30
16.	What is process? With a neat diagram, explain the life cycle of a process. 1+5=6
17.	of operating system? Explain briefly.
18.	What is paging? Why is paging necessary in OS? Explain the working principle of paging.
19	Explain the following: 3×2=6 (a) Swapping
	(b) Virtual memory
20	Explain the following disk scheduling algorithms: 3×2=6
	(a) FCFS (b) SSTF
21	Explain DMA controller with block diagram.
22	 What are file access methods? Explain these briefly.

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23.	Discuss about different file allocation	
	methods.	6
24.	Explain how interprocess communication takes place between two processes.	6
25.]	What is deadlock? Explain the necessary conditions for its occurrence.	6
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