Roll No. Total No. of Pages: 02

Total No. of Questions: 18

B.Tech. (CSE) / (AI&ML) / (CE) / (CSE) (IOT) (Sem.-4)

OPERATING SYSTEM

Subject Code: BTCS-402-18

M.Code: 77628

Date of Examination: 07-07-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- 1. PCB
- 2. Protection
- 3. Threshold
- 4. System Calls
- 5. Soft RTS
- 6. Multi-programming OS
- 7. Waiting Time
- 8. Logical Address
- 9. Preemptive
- 10. Frame.

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SECTION-B

- 11. What is an Operating System and its services?
- 12. Explain the FIRST fit, and Worst fit allocation algorithms with the help of example.
- 13. Explain Belady's Anomaly.
- 14. Write a detailed note on paging and segmentation.
- 15. List down various protection problems that an operating system might have to deal.

SECTION-C

- 16. A block manager for a variable size region strategy has a free list of blocks of size 600, 1400, 1000, 2200, 1600 and 1050 bytes. What block size will be selected to honor a request for 1605 bytes using best fit policy?
- 17. What is thrashing? How it is eliminated?
- 18. What is Page Fault? Explain the process with the help of diagram. Also, define swapping.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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