

Roll No. :

Total No. of Pages : 3

BCA-203

B.C.A. (IInd Year) Examination, 2021
FUNDAMENTALS OF OPERATING SYSTEM
Paper-III

Time Allowed : 1½ Hours

Maximum Marks : 100

Part-A

[Marks : 30]

Note :- Answer all questions (50 words each). All questions carry equal marks.

Part-B

[Marks : 70]

Note :- Answer any two questions (250 words each). All questions carry equal marks.

Part-A

1. (i) Define Operating System.

(ii) What is System Call ?

(iii) Define Process.

(1)

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- (iv) What is Turn Around Time ?
- (v) What is Waiting Time ?
- (vi) What is Critical Section ?
- (vii) Give use of Semaphore.
- (viii) What is Deadlock Prevention ?
- (ix) What is Internal Fragmentation ?
- (x) What is Swapping ?

Part-B

2. Explain Virtual Machine.
3. Explain functions of Operating System.
4. Explain Inter-process Communication.
5. Explain Scheduling criteria.
6. Explain Banker's algorithm.
7. Discuss advantages of process synchronization.
8. Differentiate Paging and Segmentation.
9. Explain Demand paging.

orthogonal

10. Explain the various states of process.
11. Explain page replacement algorithm with suitable example.