

Roll No.

Printed Pages : 2

1242

BCA / D-18
OPERATING SYSTEM-I
Paper-BCA-352

Time allowed : 3 hours]

[Maximum marks : 80

Note : Attempt any five questions in all, selecting at least one question from each unit. Question No. 1 is compulsory.

Compulsory Question

1. (a) Define Real Time Operating System.
- (b) What do you mean by Spooling ?
- (c) Differentiate between a Program and a Process.
- (d) What is a Thread ?
- (e) Define the term 'Swapping'.
- (f) What do you understand by the term 'Deadlock' ?
- (g) What do you mean by file encryption ?
- (h) Briefly introduce Computer Virus ? 8×2=16

Unit-I

2. (a) What do you mean by an Operating System ? Give some examples of Operating System. 4, 2
- (b) Explain Operating System as a Manager of Resources. 10
3. Explain Multiprocessing Operating System in detail. 16

1242

[Turn over

(2)

Unit-II

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| 4. | (a) Write a note on Process Control Block. | 8 |
| | (b) Discuss the various Operations on Processes. | 8 |
| 5. | Explain Multi-level feedback Queue Scheduling. | 16 |

Unit-III

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| 6. | (a) What do you mean by Safe & Unsafe States regarding Deadlocks ? | 3,3 |
| | (b) Write down the Bankers Algorithm. | 10 |
| 7. | Explain the concept of Paging in detail. | 16 |

Unit-IV

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| 8. | Discuss Demand Paging in detail. | 16 |
| 9. | Discuss the various file protection techniques. | 16 |

