Roll No. of Printed Pages : 4

Total No. of Questions : 9] (2102)

> BCA (CBCS) RUSA Vth Semester Examination

3996

BCA-0501

Time : 31lours]

Maximum Marks : 70

Note - Question No. 1 of Part A is compulsory. Select one question each from Parts B, C, D and E.

Part-A

(Compulsory Question)

I. (A) (i) What is GUI ?



(iii)

In internal memory of fixed size partition, the unused space is called there have a public

With multiprogramming is used productively.

(a) Time (b) Space

(c) Memory (d) All of these

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(1)

Turn Over

- (iv) The interval from the time of submission of a process to the time of completion is termed as :
 - (a) Waiting time
 - (b) Turnaround time
 - (c) Response time
 - (d) Throughput
- (v) SRTF is known as
- (vi) Which of the following is deadlock avoidance algorithm ?
 - (a) Banker's Algorithm
 - (b) Round Robin Algorithm
 - (c) Elevator Algorithm
 - (d) Karm's Algorithm
- (vii) acts as a layer between hardware

and user program.

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(2)

(viii) Operating System keeps the files in a table called

- (ix) By Operating System, the resource management can be done via :
 - (a) TDM

(b) SDM

- (c) Both TDM and SDM
- (d) None of these
- (B) Answer the questions (25 to 50) words of 4 marks each :
 - (i) Single and Multiuser Operating System
 - (ii) Banker's Algorithm
 - (iii) Swapping
 - (iv) Realtime Operating System
 - (v) Internal Fragmentation

4×5=20

Part-B (Unit-I)

10 each

2. What is Operating System ? Discuss various characteristics of an operating system.

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(3)

Turn Over

- 3. Discuss the following Operating System :
 - (i) Time sharing
 - (ii) Batch processing
 - (iii) Single user

Part-C (Unit-U)

10 each

- What is PCB ? Discuss various functions performed by PCB.
- What is difference between preemptive and nonpreemptive scheduling algorithm ? Discuss SRTF in detail.

Part-D (Unit-III)

10 each

10 each

- 6. What is Demand Paging ? How is it different from simple paging ?
- Discuss various memory management techniques in detail.

Part-E (Unit-IV)

- 8. What is File ? Discuss various operations of file.
- 9. Discuss free space management in detail.

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(4)