Roll No.

Total No. of Questions: 9] [Total No. of Printed Pages: 4

(2111)

### BCA (CBCS) RUSA Vth Semester Examination

# 4518

### OPERATING SYSTEM BCA-0501

Time: 3 Hours

[Maximum Marks: 70

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

#### Part-A

### (Compulsory Question)

- 1. (A) (i) The Operating System is an example of:
  - (a) System Software
  - (b) Application Software
  - (c) Hardware
  - (d) Storage Devices

C - 582

(1)

Turn Over

- (ii) DOS is a/an . Of exating Eystem
- (iii) PCB stands for ... frocus. Control block
- (iv) Which one of the following is the deadlock avoidance algorithm?
  - (a) Round Robin
  - (b) Karm's
  - (c) Elevator
  - (d) Banker's
- (v) Logical memory is broken into blocks of the same size called :
  - (a) Frames
  - (b) Pages
  - (c) Backing store
  - (d) None of these
- (vi) Operating System keeps the files in a table called Page table
- (vii) The circular wait condition can be prevented by facethation

(viii)	The numbers of processes completed per unit time is known as:
	(a) Output
	(b) Throughput
	(c) Efficiency
	(d) Capacity
(ix)	SRTF stands for Sheltest Remaining limb
(x)	GUI stands for Corresphic . Under Track
Answer the questions (25 to 50) words of	
4 marks each :	
(i)	Write short note on simple monitor
(ii)	Process and Thread
(iii)	System Calls
(iv)_	Virtual Memory

Part-B (Unit-I)

10 each

 $4 \times 5 = 20$ 

What is operating system? Discuss various services provided by operating system.

(v) Internal Fragmentation

3. What do you mean by multi-programming, multi user and multi-processor operating system?

**(B)** 

### Part\_C (Unit-II)

10 each

- What is process? Explain the life-cycle of a process with the help of diagram.
- What is deadlock? Discuss various detection and recovery methods.

## Part-D (Unit-III)

10 each

- What is Memory? Discuss memory management scheme, Bare Machine, Resident Monitor and swapping.
- 7. What is Paging? How is it different from demand paging?

### Part-E (Unit-IV)

10 each

- What is file? Write advantages and disadvantages of index sequential and random access file system.
- What is Directory ? How is it different from file ? Discuss various directory system.

W From