

4008-02

Printed Pages : 8

Degree (Part-I) (Voc.) Examination, 2021

(Honours)

BCA

[PPU-D-I-(V)-H-BCA-2]

[Paper : Second]

Time : Three Hours]

[Maximum Marks : 75

Note : Candidates are required to give their answers in their answers in their own words as far as particable. Attempt **any five** questions in all. All questions are of equal value. **Question No.1 is compulsory**

1. Choose the correct answer from the following :

(i) A program in execution is called

- (a) A page
- (b) A process
- (c) Virtual memory
- (d) Demand page

(ii) Which is not application Software ?

- (a) Windows NT
- (b) Page Maker
- (c) Winword XP
- (d) Outlook Express

(iii) Operating System is a collection of :

- (a) Software routines
- (b) Input-output devices
- (c) Hardware components
- (d) All of the above

(iv) The list command lists _____ records on Screen

- (a) 10
- (b) All
- (c) 100
- (d) Only top 50

(v) Multiprogramming of Computer System increases :

- (a) Memory
- (b) Storage
- (c) CPU utilization
- (d) Cost of processing

(vi) To add more records at the end of any database file, use the command _____

- (a) ADD
- (b) APPEND
- (c) JOIN
- (d) LISTALL

(vii) When does Page fault occur ?

- (a) The page is present in memory
- (b) The deadlock occurs
- (c) The page does not present in memory
- (d) The buffering occurs

(viii) What is the fence register used for ?

- (a) To disk protection
- (b) To CPU utilization
- (c) To memory protection
- (d) None of these

(ix) Which of the following is a condition that causes deadlock ?

- (a) Mutual exclusion
- (b) Circular wait
- (c) No preemption
- (d) All of the above

(x) Who among the following can create a new process ?

- (a) Fork
- (b) Read
- (c) Kill
- (d) Down

2. What is Operating System ? What are the various objectives and functions of operating system ?
3. Discuss Process Management. Also discuss the life-cycle of a process.
4. Explain the following FoxPro commands
 - (a) Pack
 - (b) Browse
 - (c) Modify structure
 - (d) DEL
 - (e) ZAP
5. Briefly explain and compare Fixed and dynamic memory partitioning schemes. <https://www.ppuonline.com>
6. What is Disk Scheduling ? Discuss disk scheduling algorithms. SCAN, CSCAN, FCFS, CLOOK.
7. Consider the following processes, with the length of the

CPU burst time given in milliseconds

Process	Burst time
P1	10
P2	29
P3	3
P4	7
P5	12

Consider the FCFS, SJF, Round Robin (quantum 10ms) Scheduling algorithms. Illustrate the scheduling, using Gantt chart.

8. What do you mean by Macro? How can you create and use a Macro in FoxPro?
9. What is Disk Allocation method in OS ? Explain contiguous and Non-contiguous disk allocation methods.
10. Explain the basic concept of segmentation in detail. Also discuss address mapping in segmented system.

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