

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

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(1)

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(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.
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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