

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)

[P.T.O.]

(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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