Degree (Part-I) Examination, 2022

(Vocational)

BCA

| Paper : Second |

| PPU-D-1(H)-BCA-2 |

Time : Three Hours]　　　　　　　[Maximum Marks : 75

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

1.　　Choose the correct answer of the following :

(i)　　What is an operating system ?

　　(a)　Collection of programs that manages hardware resourses

　　(b)　Interface between the hardware and application programs

　　(c)　System service provides to the application programs.

　　(d)　All of the above

(ii)   In Unix, which system call creates the new process ?

(a)   Fork

(b)   Create

(c)   New

(d)   None of the above

(iii)   FIFO or FCFS Scheduling is a type of :

(a)   Pre-emptive scheduling

(b)   Non-preemptive scheduling

(c)   Both (a) and (b)

(d)   None of the above

(iv)   Which of the following is/are CPU scheduling algorithm ?

(a)   Shortest Job First

(b)   Round Robin

(c)   Both (a) and (b)

(d)   None of the above

(v) Which types of operating system reads and react in terms of actual time ?

    (a) Time sharing OS

    (b) ✓ Real time OS

    (c) Batch OS

    (d) None of the above

(vi) Which of the following atomic operation performed by semaphore.

    (a) ✓ Wait, Signal

    (b) Signal, Stop

    (c) Wait, Stop

    (d) None of the above

(vii) Add more records at the end of any database file, use the command -------.

    (a) Join

    (b) ✓ Append

    (c) Add

    (d) None of the above

(viii) What type of Commands are required to perform various tasks in DOS ?

    (a)   Internal Commands

    (b)   External Commands

    (c)   Primary Commands

    (d)   None of the above

(ix) The --- ---command is used to exit from Fox Pro.

    (a)   DEL

    (b)   OUT

    (c)   Quit

    (d)   None of the above

(x) The default date style is --------.

    (a)   m/d/y

    (b)   mm/dd/yy

    (c)   dd/mm/yy

    (d)   None of the above

2. Define operating system and its types. 6

3. Define process, process state and Process Control Block.

4. Compare the First Come First Serve (FCFS) and Shortest Job First (SJF) CPU scheduling algorithms.

5. Define the following commands.

  (a) Append

  (b) Browse

  (c) Display

  (d) Replace

  (e) ZAP

6. Discuss the necessary conditions for the Deadlock.

7. What is Macro ? How can you create and use a Macro in Fox Pro ?

8. Explain the concept of paging and segmentation.

9. Explain the External and Internal Fragmantation and also compaction mechanism.

10. Explain the SCAN, CSCAN and FCFS disk scheduling algorithms.

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