Degree (Part-I) Examination, 2024

(Vocational)

BCA

[Paper : Second]

Paper Code : 400802

Time : Three Hours]　　　　　　[Maximum Marks : 75

Note : Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt **any five** questions. Question No. **1** is **compulsory**.

अभ्यर्थी यथासंभव उत्तर अपने शब्दों में ही दें। उपांत के अंक पूर्णांक के द्योतक हैं। किन्हीं पाँच प्रश्नों के उत्तर दीजिए। प्रश्न सं. 1 अनिवाय है।

---

1. Choose the correct answer of the following :

    (i) 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

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

(a)   m/d/y

(b)   mm/dd/yy

(c)   dd/mm/yy

(d)   None of the above

(iii)   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

(iv)   The _____ command is used to exit from Fox Pro.

    (a)   DEL

    (b)   OUT

    (c)   Quit

    (d)   None of the above

(v)   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

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

    (a)   Fork

    (b)   Create

(c)   New

(d)   None of the above

(vii) 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

(viii) 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

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

    (a)   Join

    (b)   Append

(c) Add

(d) None of the above

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

(a) Wait, Signal

(b) Signal, Stop

(c) Wait, Stop

(d) None of the above

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

3. Define operating system and its types.

4. Define the following commands.

(a) ZAP

(b) Browse

(c) Display

(d) Replace

(e) Append

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

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

7. Discuss the necessary conditions for the Deadlock.

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

9. Explain the concept of paging and segmentation.

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

THE END