

**B.C.A Semester - 4 (NEP-2020) Examination****March/April-2025****Operating System (Skill Enhancement Course)****Time: 1:00 Hours****Marks: 25****Instructions:**

1. All questions are compulsory.
  2. Figures to the right indicate marks.
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**Que-1 Answer any two.** (10)

1. What are the basic objectives of Operating Systems?
2. List various process scheduling algorithms. Explain anyone.
3. Explain the concept of memory allocation
4. Differentiate between physical memory and virtual memory

**Que-2 Answer any two.** (10)

1. Explain unique features of Linux OS
2. List and explain basic file operations
3. List various decision structures. Explain any one with example
4. Explain the concept of Shell variables

**Que-3 Answer any one.** (05)

1. Draw and label Process and State Transition Diagram
2. Write a Shell script to show the usage of any looping statement

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