

**(100) DIPLOMA IN COMPUTER APPLICATION**  
**Examination MAR.-APR. 2021**  
**Compulsory/Optional**  
**Paper-VI**  
**INTRODUCTION TO OPERATING SYSTEM**

Time: Three Hours

Maximum Marks-100  
Minimum Passing Marks-033

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिये । प्रश्नों के अंक समान हैं

Note: Answer all questions. All questions carry equal marks.

1. Write the answer of the following-

- a) What are Batch Systems?
- b) What do you mean by Time-Sharing Systems?
- c) What are the different states of a process?
- d) What is virtual memory?
- e) What Is Demand Paging?
- f) What are the various operations performed in a File?
- g) What are the operations performed in a Directory?
- h) What are Pages and Frames?
- i) What is the information associated with an Open File?
- j) What is Preemptive Scheduling?

2. Explain different types of operating systems.

अथवा / Or

Explain architectures of different operating system structure.

3. Explain Process Control Block (PCB).

अथवा / Or

What is process state? Explain state transition diagram.

4. What are the differences between paging and segmentation?

अथवा / Or

Explain swapping in memory management?

5. What are the various disk scheduling policies? Explain.

अथवा / Or

Explain the basic file system architecture.

6. Explain the various file organizations methods in detail with diagrams.

अथवा / Or

Write notes on File directories.