

AJ-1627
(100) Diploma in Computer Application
Term End Examination, 2021-22
(Paper-VI)
Introduction to Operating System

Time : 3 hrs.]

[Maximum Marks : 100

Note : *Attempt all questions. All questions carry equal marks.*

1. Write the answer of the following :
 - (a) What do you mean by operating system ?
 - (b) Define process.
 - (c) What do you mean by system call ?
 - (d) What is deadlock ?
 - (e) What are the basic functions of an operating system?
 - (f) What is GUI ?
 - (g) What do you mean by real time operating system?
 - (h) Write ten examples of operating system.
 - (i) What is thrashing ?
 - (j) What do you mean by multi processing system?
2. What do you mean by scheduling algorithm? Explain different types of scheduling algorithms.

OR

What are the different states of a process? Explain in detail.

3. What is paging ? Explain the difference between paging and segmentation.

OR

What do you mean by semaphore in operating system? Why is it used ?

4. What are the different types of operating system? Explain them in detail.

OR

Explain the file system architecture.

5. Explain disk structure in detail.

OR

Explain different free space management techniques in detail.

6. What are the necessary conditions of deadlock ? Explain deadlock avoidance in detail.

OR

Explain the following with respect to file :

- (a) Concept of file
- (b) Access methods
- (c) File sharing.