2020

COMPUTER APPLICATION (Honours)

Paper : DC-6(a)

(Operating System)

(CBCS)

Full Marks : 25 Time : Two Hours

The figures in the margin indicate full marks.

Group - A

Answer any *five* questions. 2×5=10

1. (a) Define Kernel Mode.

   (b) Write two functions of operating system.

   (c) What is Multiprogramming operating system?

   (d) Differentiate between logical and physical address.

   (e) What is Ready Queue?

   (f) Distinguish between a CPU bound process and I/O bound process.

   (g) What is aging?

Group - B

Answer any *three* questions. 5×3=15

2. What is Critical Section? What is difference between Binary and Counting Semaphores? 2+3=5

3. What is PCB? Explain the life cycles of a process. 2+3=5

4. Consider the following set of processes :

Process	Burst Time	Arrival Time
P_1	6	2
P_2	5	1
P_3	2	3
P_4	1	6

(a) Draw the Gantt chart illustrating the execution of these process using SRTF scheduling.

(b) Calculate the average waiting time. 3+2=5

5. Write a short note on any *one* : 5

(a) Belady's Anomaly

(b) Segmentation