

SHIVAJI COLLEGE, UNIVERSITY OF DELHI

DEPARTMENT OF COMPUTER SCIENCE

INTERNAL TEST (Academic Year 2023-24)

Name of the Course : B.Sc. (Prog.) with Computer Science

Semester: IV

Name of the Paper : Operating Systems

Faculty Name : Mr. Rakesh Yadav

Duration : 1 Hour

Maximum Marks: 20

Date of Test : 11.03.2024

Attempt all Questions

Q NO 1

- (a) Name two services provided by O S for Users (2)
- (b) How does an operating system prevent the CPU from being infinitely over run by user program? (2)
- (c) Differentiate between pre-emptive and non-pre-emptive job scheduling schemes? (3)
- (d) Differentiate between multi programming and multi-tasking? (3)

Q NO 2

(6)

Consider the following set of processes:

Process id	Arrival time	Burst Time
P1	2	3
P2	0	5
P3	1	3
P4	3	6

- (i) Draw Gantt charts showing execution of these processes using FCFS, RR (Quantum = 2) scheduling schemes.
- (ii) Compute response time and average waiting time in each scheme

Q NO 3 Define process. Explain different process states.

(4)

Faculty Signature: