Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT)/MCA/PGDCA (2019 Batch) (Sem.–1)

OPERATION SYSTEM

Subject Code : PGCA-1903

M.Code : 76973

Time : 3 Hrs. Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

Q1. Explain the following :

a) PCB

b) LRU

c) Paging

d) DMA

e) Trashing

f) Scheduling

g) System call

h) Throughput

i) Deadlock

j) Fragmentation

SECTION-B

Q2. Define Operating Systems and its types.

Q3. Find waiting and turnaround time for the given processes using FCFS and SCF algorithms.

Process	Arrival Time (ms)	Burst Time (ms)
P1	1	5
P2	2	4
P3	2	7
P4	3	2

Q4. Differentiate between preemptive and non-preemptive scheduling.

Q5. What is round robin scheduling? Explain it with help of an example.

SECTION-C

Q6. Discuss basic memory management techniques and their advantages and dis-advantages.

Q7. Differentiate between LRU and optimal replacement algorithms with help of example.

Q8. What is a page fault? Also describe locality of reference.

Q9. Explain various levels of RAID structure.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.