B.Tech. DEGREE EXAMINATION, MAY 2023

Fourth Semester

18CSC360J – OPERATING SYSTEMS

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

(i) Part – A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

(ii) Part – B & Part – C should be answered in answer booklet.

Time: 3 hours   Max. Marks: 100

PART – A (20 × 1 = 20 Marks)

Answer ALL Questions

1. The main advantages of batch operating system is _____.
   - (A) Low cost
   - (B) Multiple users can share the batch system
   - (C) Easy debug
   - (D) Suitable for managing small work

2. Operating system is not a
   - (A) System software
   - (B) First loaded program by boot program
   - (C) Hardware software interface
   - (D) Application software

3. Hardware interrupt is made by
   - (A) IRQ line
   - (B) Interrupt handler
   - (C) Special instructions
   - (D) Interrupt condition

4. Virtual machine is used for
   - (A) Utilization of memory
   - (B) Running different operating systems simultaneously
   - (C) Frequently used program
   - (D) Multithreading

5. Purpose of process scheduling is to _____.
   - (A) Maximize waiting time
   - (B) Maximize throughput
   - (C) Maximize response time
   - (D) Maximize turnaround time

6. Round Robin scheduling falls under the category of _____.
   - (A) Non-preemptive scheduling
   - (B) Preemptive scheduling
   - (C) Multiple level queue scheduling
   - (D) Priority scheduling

7. In real time operating system, _____.
   - (A) Kernel is not required
   - (B) Process scheduling can be done only once
   - (C) All process must be serviced by its deadline period
   - (D) All process have the same priority

Process	Arrival time	Burst time
P1	0.0	12
P2	0.4	8
P3	0.7	3
P4	1.0	3

(i) Find the average waiting time and turnaround time for these process with the FCFS scheduling algorithm.

(ii) Find the average waiting time and turnaround time for these process with SJF scheduling algorithm.

(OR)

b. Explain in detail about rate monotonic scheduling and earliest deadline first scheduling with suitable example.

30. a. Describe a solution to the dining philosopher problem so that no race condition arises.

(OR)

b. Consider the following snapshot

Process	Allocation				Max				Available			
	A	B	C	D	A	B	C	D	A	B	C	D
P0	0	0	1	2	0	0	1	2	1	5	2	0
P1	1	0	0	0	1	7	5	0				
P2	1	3	5	4	2	3	5	6				
P3	0	6	3	2	0	6	5	2				
P4	0	0	1	4	0	6	5	6				

Answer the following using bankers algorithm

(i) What are the contents of matrix need?

(ii) Is the system in safe state?

(iii) If request for P1 arrives for (0, 4, 2, 0).

31. a. Explain the following allocation algorithm with example:
   (i) First fit
   (ii) Best fit
   (iii) Worst fit

(OR)

b. Consider the following reference string:

1, 2, 3, 4, 5, 3, 4, 1, 6, 7, 8, 7, 8, 9, 7, 8, 9, 5, 4, 5, 4, 2

How many page faults would occur for the following replacement algorithms, assuming four and six frames respectively?

(i) LRU page replacement

(ii) FIFO page replacement

32. a. State and explain FCFS, SSTF and SCAN disk scheduling with example.

(OR)

b. What are the various disk space allocation methods? Explain any two in detail.

* * * * *

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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