(CSC 7305 A)

B.Sc Degree (CBCS) Examinations, JULY -2022
VI SEMESTER
OPERATING SYSTEMS

TIME : 3.00 Hours   Maximum : 60 Marks

Section-A (5 X 4=20 Marks)

Answer any FIVE of the following questions

1. Define Operating System.
2. Write a short note on Multi programmed and Time-shared systems.
3. Write a short note on Monitors.
4. What is Critical Section problem.
5. Write a short note on Fragmentation.
6. Explain about Logical and Physical address space.
7. Write a short note on File System Mounting.
8. Write a short note on Disk Structure.
9. What is Deadlock and list out the methods for handling Deadlock.
10. Write a short note on necessary conditions for Deadlock.

Section -B

Answer the following Questions   **5 X 8 =40 Marks**

11. a) Explain about OS-structure, Operations, Functions.

(OR)

b) Explain about Distributed Systems and Real-Time Systems.

12. a) Explain FCFS and SJF scheduling algorithms.

(OR)

b) Explain about Classic problems of Synchronization.

13. a) Explain in detail about Paging Technique.

(OR)

b) Explain approximations of LRU.

14. a) Explain various File Access methods.

(OR)

b) Explain about Directory Structure.

15. a) Explain about Deadlock detection and Recovery from Deadlock.

(OR)

b) Explain about Deadlock prevention techniques.

✳ ✳ ✳

Regd.No._____

(CSC N 4305-2)

B.Sc (MPCS,MSCS,MECS,MCCS,DSCS)

Degree (CBCS) Examinations,JULY -2022

IV SEMESTER

OPERATING SYSTEMS

TIME : 3 Hrs   Max Marks:60

SECTION-A

Answer any **FIVE** of the Following questions   5x4=20M

1. Define Operating System?
2. Define Computer System Architecture?
3. How to make a system call?
4. What is Semaphores?
5. What is The IPC related System Calls?
6. What is Demand Paging?
7. What is Linking and Loading a Process?
8. Explain about Disk Scheduling?
9. Define Page replacement?
10. What is Deadlock Characterization?

SECTION-B

5x8=40M

Answer All Questions

11. A) Explain about I/O Devices

(OR)

b) Define operating System and Explain with OS-structure, Operations Functions?

12. A) Explain UNIX-style Process Creation?

(OR)

B) Explain Scheduling Algorithm?

13. A) Explain implementation of simple operating system?

(OR)

B) Explain about Virtual Memory?

14. A) Explain Noncontiguous Logical Address space?

(OR)

B) What is File? Explain various file operations and file Access Methods?

15. A) Explain Approximations of LRU?

(OR)

B) Explain about Deadlock Prevention& Avoidance?

✳ ✳ ✳

TIME : 3 Hrs

Max Marks:60

SECTION-A

Answer any FIVE of the Following questions   5x4=20M

1. Define Operating System?
2. Define Computer System Architecture?
3. How to make a system call?
4. What is Semaphores?
5. What is The IPC related System Calls?
6. What is Demand Paging?
7. What is Linking and Loading a Process?
8. Explain about Disk Scheduling?
9. Define Page replacement?
10. What is Deadlock Characterization?

SECTION-B

Answer All Questions   5x8=40M

11. A) Explain about I/O Devices

(OR)

b) Define operating System and Explain with OS-structure, Operations Functions?

12. A) Explain UNIX-style Process Creation?

(OR)

B) Explain Scheduling Algorithm?

13. A) Explain implementation of simple operating system?

(OR)

B) Explain about Virtual Memory?

14. A) Explain Noncontiguous Logical Address space?

(OR)

B) What is File? Explain various file operations and file Access Methods?

15. A) Explain Approximations of LRU?

(OR)

B) Explain about Deadlock Prevention& Avoidance?

✳ ✳ ✳

Regd.No:_____

(CSC – 7305A)

B.Sc Degree (CBCS) Instant Examinations-September 2022
SEMESTER-6
OPERATING SYSTEMS

TIME: 3 Hrs

Max Marks:60

Section-A (5 X 4=20Marks)

Answer any FIVE of the following questions

1. Write a short note on Objectives of Operating Systems.
2. Write a short note on Simple Batch Operating Systems.
3. Write a short note on Semaphores.
4. What is Critical Section problem.
5. Write a short note on Fragmentation.
6. Write a short note on Demand paging.
7. Write a short note on File System Mounting.
8. Write a short note on Directory Structure.
9. What is Deadlock and list out the methods for handling Deadlock.
10. Write a short note on necessary conditions for Deadlock.

Section -B

Answer the follov.ing Questions   5 X 8 =40 Marks

11. a) Explain about OS-structure, Operations, Functions.

(OR)

   b) Explain about Computer System Architecture.

12. a) Explain Round Robin and Priority scheduling algorithms with examples.

(OR)

   b) Explain about Process Synchronization using Monitors.

13. a) Explain in detail about Segmentation Technique in detail.

(OR)

   b) Discuss about First In First Out Page Replacement algorithm with example.

14. a) Explain various File Access methods.

(OR)

   b) Explain about Disk scheduling algorithms.

15. a) Explain about Deadlock detection and Recovery from Deadlock.

(OR)

   b) Explain about Deadlock avoidance techniques with Banker's algorithm.

—— o ——