

(FOR THE CANDIDATES ADMITTED

23UIT308

DURING THE ACADEMIC YEAR 2023 - 2026 ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOV 2024

B.Sc IT

MAXIMUM MARKS: 75

SEMESTER: III

TIME : 3 HOURS

PART - III

23UIT308 – OPERATING SYSTEMS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.(K1)

1. Memory is arranged on disk in the form of _____.
a) Blocks b) sectors c) memory d) data
2. Semaphores are operated by _____ operations
a) DOWN and UP b) Interrupt c) busy waiting d) send and receive
3. _____ is used for representation of deadlock.
a) DRAG b) mutual exclusion c) ostrich algorithm d) banker's algorithm
4. The communication bandwidth for tightly coupled system is _____
a) Medium b) poor c) high d) low
5. Windows NT is a _____ Operating System
a) 16 bit b) 8 bit c) 32 bit d) 24 bit

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. What is system call?
7. Define Process.
8. Name different memory management schemes.
9. RPC stands for?
10. Contrast Process and Threads.

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)

11. a) What is Booting ? Explain in detail.
(OR)
b) Explain about I/O Scheduler.
12. a) Discuss the operations on a Process.
(OR)
b) Write short note on Interrupt Disabling / Enabling.
13. a) Explain deadlock prerequisites.

(OR)

b) Write short note on paging.

14. a) List out the advantages of Parallel Processing.

(OR)

b) Discuss about Distributed File System.

15. a) Explain about Win 32 API.

(OR)

b) Discover the Memory Management in Windows 2000.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 /K5)

16. a) Describe the different services of the operating system.

(OR)

b) Discuss about file system.

17. a) Explain in detail Process state Transitions.

(OR)

b) Determine the concept of semaphores.

18. a) Evaluate the deadlock strategies.

(OR)

b) Explain about variable partitioning.

19. a) Describe the distributed processing.

(OR)

b) Discuss in detail RPC.

20. a) Explain in detail about Windows NT.

(OR)

b) Describe the Design principle of windows XP.

23UIT308/-