

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

(NO OF PAGES: 2)

22UDA205

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY- 2023

B. Sc Computer Science with Data Analytics

MAXIMUM MARKS: 50

II SEMESTER

TIME: 3 HOURS

PART - III

OPERATING SYSTEM

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

- _____ is an act of storing data temporarily
a) polling b)buffering c)segmenting d)paging
- The concept to break each process into individual is _____
a) paging b)thread c)scheduling d)splitting
- _____ occurs when a process enters a waiting state because a requested system resource is held by another waiting process _____
a) ready b)waiting c) running d)deadlock
- _____ is an organized collection of structured information
a) stack b) queue b)database d)all the above
- It is a single sequential flow of control within a program.
a)thread b)interrupt c)loop d)exit

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

- Define polling.
- What is demand paging?
- Expand FIFO
- What is disk caching?
- What is an interrupt?

SECTION – B (5 X 3 = 15 MARKS)

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

(Qn. No. 11 to 15 Questions for Short Answers with internal choices)

(K3)

- a) Explain storage protection.
(OR)
b) Explain the concept of Interrupt processing.
- a) Discuss the strategies of storage management.
(OR)
b) Explain about Virtual storage organization.

(CONTD....2)

13. a) Describe the objectives of scheduling.
(OR)
b) How to prevent deadlock? Explain.
14. a) Why is disk scheduling necessary?
(OR)
b) Explain file descriptor.
15. a) Discuss thread management.
(OR)
b) Explain I/O processing.

SECTION – C**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(Qn. No. 16 to 20 Questions for Long Answers with internal choices (K4 (Or) K5)**

16. a) Write about history of operating system.
(OR)
b) Explain the process control block?.
17. a) Distinguish between contiguous and non contiguous storage allocation.
(OR)
b) Explain segmentation.
18. a) Compare preemptive and non preemptive scheduling.
(OR)
b) Explain banker's algorithm.
19. a) Discuss the characteristics of disk scheduling.
(OR)
b) Explain Access control matrix.
20. a) Discuss page replacement.
(OR)
b) Explain the process of Interrupt handling.
