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(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR
2019 ONLY)

(NO.OF PAGES: 2)

19 PMC 316

REG No.

NGM COLLEGE (AUTONOMOUS) : POLLACHI

END – OF – SEMESTER EXAMINATIONS : JUNE 2021

M.C.A

MAXIMUM MARKS: 75

III - SEMESTER

TIME: 3 HOURS

OPERATING SYSTEMS

SECTION –A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

1. Multiprocessor Operating System refers to the use of two or more -----
within a Single computer system. K1
a) Central processing units b) Motherboard Support
c) Processor Support d) Locking system:
2. The child processes can create new processes using ----- K1
a) Function Calls b) Storage Calls c) Systems Calls d) Process Calls
3. A ----- Algorithm is needed to decide which page needs to be replaced when
new page comes in. K1
a) Deadlock b) Page replacement c) Function calls d) CPU
4. A -----can access directly any given block of data it contains. K1
a) Deadlock b) Demand paging c) Disk d) Memory
5. A -----are pieces of code that can be loaded and unloaded into the kernel upon
demand. They extend the functionality of the kernel without the need to reboot the
system. K1
a) kernel Module b) Memory Module
c) Process Module d) Page Replacement Module.

SHORT ANSWERS.

6. What are the combinations of clustered systems? K1
7. Write a short note on real time scheduling. K1
8. Definition of demand paging K1
9. Write any one example for free space management. K1
10. What is network structure? K1

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SECTION –B

(5X5=25 MARKS)

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

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|--|----|
| 11. a) Write about Multiprocessor systems. | K3 |
| (OR) | |
| b) Explain Virtual Machine. | K3 |
| 12. a) Discuss operations on a process. | K3 |
| (OR) | |
| b) Write about deadlock prevention. | K3 |
| 13. a) Explain swapping. | K3 |
| (OR) | |
| b) Write about page replacement. | K3 |
| 14. a) Discuss file system implementation. | K3 |
| (OR) | |
| b) Write about Free space management. | K3 |
| 15. a) Explain kernel modules. | K3 |
| (OR) | |
| b) Write about programmer interface. | K3 |

SECTION-C

[4 X10 = 40 MARKS]

ANSWER ANY FOUR OUT OF SIX QUESTIONS. (16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Qn.No:17 to 21)

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|--|----|
| 16. Describe Clustered Systems. | K4 |
| 17. Explain System Generation. | K4 |
| 18. Explain Real Time Scheduling. | K5 |
| 19. Write about Demand Paging. | K5 |
| 20. Explain the Allocation methods in file system? | K4 |
| 21. Describe Network Structure. | K5 |
