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SUBJECT CODE NO: - CB-2344
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y (Sem-I)
Examination December/January-2022-23
Computer Science Paper-II CMP-021 Operating System

[Time: 1:30 Hours]

[Max. Marks: 40]

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All Questions Carry equal marks.
- 3) Draw neat diagrams and give labels wherever necessary.
- 4) figure to right indicates full marks

Q1 Define software. explain classification of software. 10

OR

Explain in brief.

- a) Evolution of operating system 5
- b) Time shairing operating system 5

Q2 What is I/O management? explain I/O device, Device driver, device controller in detail 10

OR

Explain in brief.

- a) process state 5
- b) Types of scheduler. 5

Q3 Write a short notes on (any Two) 10

1. Functions of operating system
2. Storage devices
3. Concept of deadlock
4. Paging

Q4 multiple choice questions. 10

1. A program in execution is called _____
a) Process b) procedure c) Function d) Instruction.
2. which of one following is system software?
a) Text editor b) Operating system c) Tally d) Ms-word.
3. The operating system function of Managing the main memory is called as _____
a) process management. c) Disk Management.
b) Device Management. d) Memory management.

4. which one of the following a secondary storage?
a) RAM b) Magnetic disk c) Magnetic Tape d) Pen drive
5. The operating system is responsible for.
a) Disk initialization c) Bad block recovery
b) Booting from disk. d) All of the mentioned.
6. A process must be holding at least *one* resource and waiting to acquire additional resources that are currently being held by other processes this condition for dealude is referred to as _____
a) Hold and wait b) Mutual exclusion c) No preemption d) circular wait.
7. Which one of the following is the deadlock avoidance algorithm?
a) Karn's algorithm c) Round robin algorithm
b) Banker's algorithm d) elevator algorithm
8. Which is the state when the process has just been created.
a) New b) Ready c) Running d) Blocked.
9. In the _____ State the process is removed from main memory and its controlled block is also deleted.
a) Terminated b) Ready c) Running d) New.
10. _____ is the single user operating system
a) MS-DOS b) Windows 11 c) UNIX d) LINUX