

Seat	
No.	



Total No of Pages: 3

**Kamala College, Kolhapur**

**(Autonomous)**

**B.C.A. (Part-I) (Semester-II) (CBCS)**

**Examination March/April, held on May, 2023.**

**CC 309: Operating System**

**Day and Date: Tuesday, 30/05/2023**

**Total Marks: 80**

**Time: 08.00 a.m. to 11.00 a.m.**

**Instructions:**

1. Que.1 and Que.8 are compulsory
2. Attempt any three questions from Que. No.2 to Que. No. 7
3. Figures to the right indicate total marks.

Q.1 Multiple Choice Questions (12 questions for 1 mark each) 12

1. An Operating System is a software which acts as an interface between the end user and -----.

- |             |                  |
|-------------|------------------|
| A. Software | C. Hardware      |
| B. User     | D. None of these |

2. Which Operating System uses punch cards?

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| A. Batch Operating System            | C. Real Time Operating System    |
| B. Multiprogramming Operating System | D. Time Sharing Operating System |

3. ----- is known as a Heart of an Operating System.

- |             |                  |
|-------------|------------------|
| A. Hardware | C. System        |
| B. Kernel   | D. None of these |

4. In which state the process is in execution state?

- |          |            |
|----------|------------|
| A. Ready | C. Blocked |
| B. New   | D. Running |

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5. Process Creation is achieved through fork () system call. The fork () returns zero value for -----process.
- A. Unsuccessful process
  - B. Child process
  - C. Parent process
  - D. None of these
6. Process Management is a function of an Operating System.
- A. True
  - B. False
7. Swapping is a method in which the process should be swapped temporarily from ----- to secondary memory.
- A. Virtual Memory
  - B. Paging
  - C. Primary Memory
  - D. Process Control Block
8. The system of dividing memory into non-overlapping sizes that are fixed, unmovable and static is known as -----.
- A. Fixed Partitioning
  - B. Variable Partitioning
  - C. Dynamic Partitioning
  - D. External Partitioning
9. In which mechanism , process stored in the secondary memory and pages are loaded in the primary memory only on demand.
- A. Paging
  - B. Segmentation
  - C. Demand Paging
  - D. Logical Organization
10. The files those are stored into the particular directory are known as-----.
- A. Special Files
  - B. Directory Files
  - C. Ordinary Files
  - D. Archival Files
11. Which file access method is also called as Relative Access Method ?
- A. Sequential Access Method
  - B. Direct Access Method
  - C. Index Access Method
  - D. None of these
12. A read pointer is maintained by the Operating System for reading the data.
- A. True
  - B. False

Q.2 What is an Operating System? Explain its functions in detail.	16
Q.3 What is Memory Management ? Explain reasons of memory management and requirements of memory management.	16
Q.4 (a) Explain process creation in process management.	08
(b) Explain process termination in process management.	08
Q.5 Explain file types and file access methods in file management.	16
Q.6 Explain the concept of paging and demand paging in memory management.	16
Q.7 Explain types of Operating System [Batch OS, Real Time OS and Distributed OS].	16
Q.8 Write short notes on (Any Four out of Six)	20
1. Paging	
2. Basic File Operations	
3. Orphan and Zombie Process	
4. Process Control Block	
5. Directory	
6. Segmentation	



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