

Seat	
No.	

Total No of Pages:

**Kamala College, Kolhapur**

**(Autonomous)**

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

**Examination November, 2023.**

**Operating System**

**Subject Code: CC-309**



**Day and Date: Thursday 02/11/2023**

**Total Marks: 80**

**Time: 12.00 p.m. to 03.00 p.m.**

**Instructions:**

1. Que.1 and Que. 8 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 7
2. Figures to the right indicate marks.

**Q 1) Multiple Choice Questions.**

**[12]**

- 1) Operating System assumes responsibility, that of serving as a \_\_\_\_\_.
  - a) Control program
  - b) Contribute program
  - c) Supplement program
  - d) Supply program
- 2) Which of the following operating systems supports only real-time applications?
  - a) Batch OS
  - b) Distributed OS
  - c) Real-time OS
  - d) Network OS
- 3) Which of the following component does not belong to PCB (Process Control Block)?
  - a) CPU registers
  - b) CPU scheduling information
  - c) Operating System information
  - d) Accounting information
- 4) When a process is in a "Blocked" state waiting for some I/O service. When the service is completed, it goes to the \_\_\_\_\_.
  - a) Terminated state
  - b) Suspended state
  - c) Running state
  - d) Ready state
- 5) Which of the following method is used to improve the main memory utilization?
  - a) Swapping
  - b) Operating system







- Q4) a) Explain Layered structure of operating System? [8]  
b) Explain in brief memory partitioning fixed partitioning and dynamic partitioning? [8]
- Q5) a) Explain in brief Process Block Control in memory management? [8]  
b) Explain logical address space and physical address space? [8]
- Q6) Explain in brief Operating System? Functions of operating system and need of operating system? [16]
- Q7) a) Explain in brief Client Server structure and Microkernel Structure of Operating System ? [8]  
b) Explain File types and File access? [8]
- Q 8) Write short notes on. (Any Four out of Six) [20]
- 1) directory structure in file System
  - 2) Time Sharing Operating System
  - 3) Process Termination
  - 4) Virtual Memory
  - 5) Difference between Windows and Linux Operating System
  - 6) Segmentation



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