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.

Q1)	Multiple	Choice	Questions
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[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) S

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

c)Memory stack d)None of these		
6) Which of the following options is correct about the windows of system?	erating	
a) Windows is a CUI operating system. b) Windows is based or	n CUI.	
c) Windows is a GUI operating system. d) None of the these		
7) The operating system maintains a table that keeps track of	how many	
frames have been allocated, how many are there, and how many ar	e available.	
a) memory b) mapping c) page d) frame		
O) The DOD is identified by		
8) The PCB is identified by a) Real-Number b)Binary Number		
a) Real-Number b)Binary Number c)Store block d)Integer Process ID		
9) To access the services of the operating system, the interface is provi	ded by the	
9) 10 access the services of the operating system, the interface is pro-		
a) Library b) System calls c) Assembly instructions d)	API	
10) I II in which greatern call areates the next process?		
10) In Unix, which system call creates the new process? a) create b) fork c) new d) none of the mention	ned	
11) Which of the following statement is correct about fragmentation?		
a) It is software that connects the OS. b) It is part of the soft	ware.	
c) Loss the memory d) All of the these		
12) Which of the following statements is correct about virtual memory?	•	
a) It is a combination of the logical-memory and physical-memory	у	
b) It is a separation of user logical memory and physical memory		
c) It is a virtual network memory		
d) None of the these		
Q2) Define Process, Program? Explain in brief process states in process		
management?	[16]	
Q3) a) Explain Swapping in memory management?	[8]	
b) Explain in brief paging concept in memory management?	[8]	

Q4) a) Explain Layered structure of operating System?	[8]	
b) Explain in brief memory partitioning fixed partitioning	[8]	
and dynamic partitioning?		
Q5) a) Explain in brief Process Block Control in memory management?	[8]	
b) Explain logical address space and physical address space?		
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 Microkernal Structure	[8]	
of Operating System?		
b) Explain File types and File access? Q 8) Write short notes on. (Any Four out of Six)	[8] [20]	
 directory structure in file System Time Sharing Operating System Process Termination Virtual Memory Difference between Windows and Linux Operating System 		
5) Difference between Windows and Linux Operating System 6) Segmentation LIBRARY	,)	

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