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Total No. of Pages : 03

Shivaji University, Kolhapur

Kamala College, Kolhapur

B.C.A (Part -I)(Semester - II) Examination, June - 2022

Operating System

Sub. Code : 80869

Day and Date: Friday, 10/06/2022

Total Marks : 70

Time: 10:00 am to 01:30 p.m.

Instructions: 1) Que.1 and Que. 6 are compulsory and attempt any

Three Questions from Que. No. 2 to Que. No. 5

2) Figures to the right indicate marks.



Q 1) A) Multiple Choice Questions.

[10]

1) Operating System assumes responsibility, that of serving as a \_\_\_\_.

a) Control program

b) Contribute program

c) Supplement program

d) Supply program

2) The multi-user Operating System is based on the concept of \_\_\_\_.

a) Time-losing

b) Time-spooling

b) Time-gaining

d) Time-sharing

3) Which of the following operating systems supports only real-time applications?

a) Batch OS

b) Distributed OS

c) Real-time OS

d) Network OS

4) Which of the following statement is correct about fragmentation?

a) It is software that connects the OS.

b) It is part of the software.

C) Loss the memory

d) All of the these

5) The PCB is identified by \_\_\_\_\_.



- a) Real-Number  
b) Binary Number  
c) Store block  
d) Integer Process ID
- 6) 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.
- 7) 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
- 8) The main memory accommodates \_\_\_\_\_.  
a) CPU  
b) user processes  
c) operating system  
d) all of the mentioned
- 9) The operating system maintains a \_\_\_\_\_ table that keeps track of how many frames have been allocated, how many are there, and how many are available.  
a) memory  
b) mapping  
c) page  
d) frame
- 10) What will happen in the single level directory?  
a) All files are contained in the same directory  
b) All files are contained in different directories all at the same level  
c) Depends on the operating system  
d) None of the mentioned

Q1) B) Short answer questions (Any two out of three).

[10]

- 1) Explain Monolithic Structure of an Operating System?
- 2) Explain logical address space and physical address space?
- 3) Explain File types and File access?

Q 2) Explain in brief Operating System? Functions of operating system

[10]

and need of operating system?



Q 3) Define Process, Program? Explain in brief process states in process management? [10]

Q 4) Explain in brief paging concept in memory management? [10]

Q 5) Explain in brief Client Server structure and Microkernel Structure of Operating System? [10]

Q 6) Write short notes on. (Any Four out of Six) [20]

- 1) Dynamic Partitioning
- 2) Time Sharing Operating System
- 3) Process Termination
- 4) Virtual Memory
- 5) Basic file operations
- 6) Segmentation

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