



Seat	
No.	

Total No of Pages: 2

B.C.A. (Part-I) (Semester-II) (CBCS)
Examination March/April, held in May, 2023.
CC-202: Data Base Management System
Subject Code - 80869

Day and Date: Tuesday, 30/05/2023
Time: 10.30 a.m. to 01.30 p.m.

Total Marks: 70

Instructions:

- 1. Que.1 and Que.6 are compulsory**
- 2. Attempt any three questions from Que. No.2 to Que. No. 5**
- 3. Figures to the right indicate total marks.**

Q 1) A) Multiple Choice Questions.

[10]

1) The operating system is responsible for?

- | | |
|-----------------------|-------------------------|
| a) bad-block recovery | c) disk initialization |
| b) booting from disk | d) all of the mentioned |

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

- | | |
|------------------|-----------------|
| a) Time-losing | c) Time-gaining |
| b) Time-spooling | d) Time-sharing |

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

- | | |
|-------------------|-----------------|
| a) Batch OS | c) Real-time OS |
| b) Distributed OS | d) Network OS |

4) In Operating Systems, which of the following is/are CPU scheduling algorithms?

- | | |
|----------------|-------------------------|
| a) Priority | c) Shortest Job First |
| b) Round Robin | d) All of the mentioned |

5) The PCB is identified by _____ .

- | | |
|------------------|-----------------------|
| a) Real-Number | c) Store block |
| b) Binary Number | d) Integer Process ID |

6) Which of the following method is used to improve the main memory utilization?

- | | |
|---------------------|-------------------|
| a) Swapping | c) Memory stack |
| b) Operating system | 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 | c) Running state |
| b) Suspended state | d) Ready state |



8) In Unix, which system call creates the new process?

- a) create
- b) fork
- c) new
- d) none 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 Swapping in memory management.
- 2) Explain logical address space and physical address space.
- 3) Explain File types and File access methods.

Q 2) Explain in brief Operating System? Functions of operating system [10]

Q 3) What is directory? Explain in brief directory structure in file System. [10]

Q 4) Explain in brief memory partitioning fixed partitioning and dynamic partitioning? [10]

Q 5) Define Process, Program? Explain in brief process states in process management? [10]

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

- 1) Difference between Windows and Linux Operating System
- 2) Time Sharing Operating System
- 3) Process Termination
- 4) Process Creation
- 5) Basic file operations
- 6) Segmentation
