

B.Sc. Sem.-6 Examination

CC - 310

Computer Science

August 2021

Time : 2-00 Hours]

[Max. Marks : 50

Instruction: All Questions in **Section I** carry equal marks
Attempt any **THREE** questions in **Section I**
Question IX in **Section II** is **COMPULSORY**.

Section I**Q-I Write the following:**

- (A) Explain evolution of operating system. [07]
(B) Explain need of operating system [07]

Q-II Write the following:

- (A) Explain single user and multi user operating system. [07]
(B) Explain elements of operating system. [07]

Q-III Write the following:

- (A) What is Paging? Explain in details. [07]
(B) What is segmentation? Explain in details. [07]

Q-IV Write the following:

- (A) What is Demand paging? Explain in detail. [07]
(B) Explain Static partition and Dynamic partition in
Contiguous memory allocation [07]

Q-V Write the following:

- (A) Explain Round robin scheduling in CPU scheduling
algorithm. [07]
(B) Explain Semaphores in process synchronization. [07]

Q-VI Write the following:

- (A) What is Inter process communication. [07]
(B) What is Critical section problem. [07]

Q-VII Write the following:

- (A) What is Disk scheduling? Explain FCFC method. [07]
(B) Explain Characteristics of Device. [07]

Q-VIII Write the following:

- (A) Explain Disk space management. [07]
(B) Explain CSCAN method in Disk scheduling algorithm. [07]

Section II

Q IX Attempt any EIGHT MCQS

[08]

- 1) Which of the following is not an operating system?
 - a. Windows
 - b. Linux
 - c. Oracle
 - d. DOS

- 2) When was the first operating system developed?
 - a. 1948
 - b. 1949
 - c. 1950
 - d. 1951

- 3) What else is a command interpreter called?
 - a. prompt
 - b. kernel
 - c. shell
 - d. command

- 4) What is the full name of FAT?
 - a. File attribute table
 - b. File allocation table
 - c. Font attribute table
 - d. Format allocation table

- 5) What is the mean of the Booting in the operating system?
 - a. Restarting computer
 - b. Install the program
 - c. To scan
 - d. To turn off

- 6) When does page fault occur?
 - a. The page is present in memory.
 - b. The deadlock occurs.
 - c. The page does not present in memory.
 - d. The buffering occurs.

- 7) Banker's algorithm is used?
 - a. To prevent deadlock
 - b. To deadlock recovery
 - c. To solve the deadlock
 - d. None of these

- 8) When you delete a file in your computer, where does it go?
 - a. Recycle bin
 - b. Hard disk
 - c. Taskbar
 - d. None of these

- 9) Which is the Linux operating system?

- b. Windows operating system
- c. Open-source operating system
- d. None of these

10) What is the full name of the DSM?

- a. Direct system module
- b. Direct system memory
- c. Demoralized system memory
- d. Distributed shared memory

11) What is the full name of the IDL?

- a. Interface definition language
- b. Interface direct language
- c. Interface data library
- d. None of these

12) If the page size increases, the internal fragmentation is also?..?

- a. Decreases
- b. Increases
- c. Remains constant
- d. None of these

13) Which of the following is a single-user operating system?

- a. Windows
- b. MAC
- c. Ms-Dos
- d. None of these

14) The size of virtual memory is based on which of the following?

- a. CPU
- b. RAM
- c. Address bus
- d. Data bus

15) If a page number is not found in the translation lookaside buffer, then it is known as a?

- a. Translation Lookaside Buffer miss
- b. Buffer miss
- c. Translation Lookaside Buffer hit
- d. All of the mentioned

16) Which of the following is not application software?

- a. Windows 7
 - b. WordPad
 - c. Photoshop
 - d. MS-excel
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