## 1911000102030001

First Year B.C.A (Sem) -II Examination April-2023 Operating System - I

		SF1-11-11-11-11-11-11-11-11-11-11-11-11-1
[Time:	Thr	ee Hours] [Max. Marks: 70] Student's Signature
Λ1	<b>A</b> >	
Q.1		Select Appropriate correct option. [10
	1)	What is the use of directory structure in the operating system?
		a) The directory structure is used to solve the problem of the network connection in OS.
		b) It is used to store folders and files hierarchically.
		c) It is used to store the program in file format.
		d) It is required to manage the data
	2)	
	2)	are used to communicate data between the peripheral devices and the system
		memory.
		a) 1/0 Address b) Memory Address c) IRQ d) DMA channels
	') ·	
3	3)	In the algorithm, the disk arm starts at one end of the disk and moves toward the
		other end, servicing requests till the other end of the disk. At the other end, the direction is
		reversed and servicing continues.
		a) SCAN b) LOOK c) C-SCAN d) C-LOOK
	4)	Mode has no access to System hardware and Kernel code.
		a) Kernal b) OS c) User d) Shell
	200	
	5)	is a special interpreter program which can be used to execute commands of UNIX
		Operating System.
		a) Shell b) Terminal c) Xmode d) Kernal
	6)	What is Linux?
		a) single user, single tasking b) single user, multitasking
		c) multi user, single tasking d) multi user, multitasking
	O.F.	
	7)	To solve the problem of external fragmentation needs to be done periodically
		a) Compaction b) Check c) Formatting d) Replacing memory

## Paper / Subject Code: 1911000102030001 / OPERATING SYSTEM-1

8)	Disk formatting are of which two types?  a) Logical, illogical b) Symmetric, Asymmetric c) Physical, Logical d) Hard, soft	
9)	ECC stands for	
	a) Error Collecting Codes b) Error Collaborating Codes	
	c) Edge Correcting Codes d) Error Correcting Codes	
10)	) Boot strap is stored in	
	a) ROM b) RAM c) Cache d) Buffer	
<b>B</b> )	Answer The Following. (Any 5)	J101
1.	What is SPOOLING?	(IIV)
2.	What is primary Goal of Operating System?	
2. 3.	List out operating system which are multi-tasking, but not multi-user.	
٥. 4.	List out Attributes of File.	
5.	Define Seek time and rotational delay.	
6.	List out Basic Features of LINUX.	
7.	What is Device drive? Types of it.	
An	swer The Following. (Any two)	[14]
a)	Explain different operations that can be performed on file.	
b)	Describe different characteristics of I/O devices.	
c)	Explain features of Linux operating system.	
An	swer The Following. (Any two)	[14]
a)	Explain Elements of Linux operating system.	
b)	Explain Multi-user operating system in detail.	
c)	Explain different types of file access method in detail.	
An	swer The Following. (Any two)	[10]
a)	Discuss evolution of an operating system.	
b)	Explain different types of files with example.	
c)	Comparison of Windows OS and Linux OS.	

## Q.5 Do the following.

Suppose a disk drive has 200 cylinders number from 0-199.drive is currently served the request at cylinder number 90.The queue for pending request in FIFO order is as follows:

15,41,144,93,73,179,137,125,69,45,36,11.

Show the disk scheduling for the following algorithm.

- 1. FCFS
- 2. LOOK
- 3. SCAN
- 4. SSTF

[12]