Paper / Subject Code: 1911000102030001 / OPERATING SYSTEM-1

1911000102030001 B.C.A. F.Y (Sem – II)

		Examination October -2023 Operating System I
		Operating System - I
[Time	: Three	e Hours] [Max. marks: 70] Student's Signature
Q.1	A)	Select Appropriate correct option. PDA stand for
		a) Personal Digital Associationb) Personal Digital Assistantc) Provide Digital Assistantd) Provide Data Association
	2)	Which one of the following explains the sequential file access method? a) Random access according to the given byte number b) Read bytes one at a time, in order c) Read/write sequentially by record d) Read/write randomly by record
SEST OF		 Which of the following statement is FALSE regarding Linux Operating System? a) Linux source code is freely available and it is community based development project. b) Linux is a multiuser operating system. c) Linux does not provide any security to the user. d) Linux provides a hierarchical file structure in which system files/ user files are arranged.
9/20°	4)	Which of the following is the extension of archive file? a) doc b) zip c) obj d) bin
	5)	In which system each computer may acts as client or server on response and request? a) Distributed OS b) Peer to Peer c) Cluster system d) Network
	6)	itself is a file owned by the operating system a) Database b) Directory c) Logical File d) Record
	7)	The heads of the magnetic disk are attached to a that moves all the heads as a unit.

The full boot strap program is stored in a partition called _____

a) Boot block b) Bad block c) Swap management d) format

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	9)	In the algorithm, the disk arm goes as far as the final request in each									
		direct	tion, and then reve	erses direction in	nmediately w	ithout going to	the end of the disk.				
			a) C-LOOK	b) SCAN	c) LOOK	d) C-SC	AN				
	10)			1 (2)		6 B					
	10)	In Li			ninistrative p	_	100 × 100 ×				
			a) Administrator	b) Standa	rd User	c) Root user	d) Child User	A			
	B)	B) Answer The Following. (Any 5)									
	,	1)	What are disadva	·	evel directory	structure?	T B				
	2) Difference between relative Path and Absolute path										
		3)	List out operatin			=	uti-user.	10			
	4) Difference between SCAN and C-SCAN disk scheduling policy.										
		5)	What do you me								
		6)	What is file? Lis	t out Basic types	s of files.						
		7) 4	Does contiguous	allocation suffe	er from extern	nal Fragmentati	on? Justify the				
			answer.	E 201							
				27							
Q.2	Answ	Answer The Following. (Any two)									
	a)										
	b)	Discus	ss the advantages	and disadvantag	es of batch pr	rocessing over i	multiprogramming.				
	(c)	Define	e spooling. Explai	n its working wi	th necessary	diagram.	St. Oxy				
			4:9 AE								
2.3	Answ		Following. (Any					14			
	a)	Write a note on Linked Allocation with its advantages and disadvantages.									
	b)	Write a note on to manage user account in Linux.									
	c)	Explai	in Time Sharing S	ystem in detail v	with example	· 2 /					
					, 95° 29°			10			
Q.4		Answer The Following. (Any two)									
			entiate various file								
	b)										
	c)	Explai	in Function and ro	le of device con	troller.						
Q.5		e follow		30 35 7	C _X			12			
			_()				y served the request a	t			
		cylinder number 87. The queue for pending request in FIFO order is as follows:									
			70,176,134,122,6		5 ^V						
	Show		scheduling for th		orithm.						
		1)	FCFS	3) SCAN							
		2)	LOOK	4) SSTF							