APJ ABDULKALAM TECHNOLOGICAL UNIXE **08 PALAKKAD CLUSTER**

Q. P. Code : CS-3AA-18-1

(Pages: 2)

THIRD SEMESTER M.TECH. DEGREE EXAMINATION D

Branch: Computer Science and Engineering Specialization: Computer Science and Engineering 08 CS 7011(A) UNIX INTERNALS

Time:3 hours

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Max.marks: 60

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Answer all six questions.

Modules 1 to 6:Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q.no.	Module 1	Marks				
1.a	Explain the structure of a Buffer pool.	3				
	Answer b or c					
b	Explain the architecture of unix operating system with neat diagram .	6				
С	Write down the algorithm for Release block and Get Block.	6				
Q.no.	Module 2	Marks				
2.a	Illustrate the algorithm for conversion of a path name to an Inode.	3				
	Answer b or c					
b	Explain the algorithm for I-node assignment to a new file with example.	6				
c	Illustrates direct and indirect blocks in I-node with suitable examples.	6				
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Q.no.	Module 3	Marks				
3.a	Mention the syntax and function of the WRITE system call.	3				
Answer b or c						
b	Explain the mounting and unmounting of a file system	6				
С	Elaborate the system call which is used for interprocess communication.	6				

Q.no.	Module 4	Marks
4.a	Explain process state and transitions with diagram.	3

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2101	Answer b or c	
, ², p	with an algorithm for handling Interrupts.	6
С	Explain about layout of system memory.	6
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l.no.	4 an and a set of the	Marks
5.a	Write an algorithm for the swapper.	4
	Answer b or c	
b	Explain in detail about swapping memory management policy in Unix	8
	system. Poetzany zie in tewzo.A.	
C	Discuss about demand paging and its data structures.	8
	t etubolik	on.D
).no.	Module 6 address of a process of minipped	Marks
6.a	Discuss about driver interfaces.	4
	Answer b or c	
o b	Explain about disk drivers and terminal drivers.	8
c	Explain the linux system with a neat architecture.	8
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