	На	II Ticket Number :			
	`ad	-: 10DE22T	R-1	7	
C	200	e: 19DF32T M.C.A. III Semester Supplementary Examinations July 20	21		
		Computer Networks	<u> </u>		
٨		-	Time: (0 Mark		rs
			Marks	со	Blooms Level
1	2)	With a post diagram, explain ISO, OSI reference model	6M	004	L2
1.	a) b)	With a neat diagram, explain ISO - OSI reference model. Differentiate between Circuit and Packet Switching.	6M	CO1 CO1	L2 L2
	5)	OR	OW	001	LZ
2.	a)	Explain Synchronous Time Division Multiplexing?	6M	CO1	L2
	b)	How networks are classified? Elaborate the types of networks.	6M	CO1	L2
		UNIT–II			
3.	a)	Describe ALOHA Protocols.	6M	CO2	L2
	b)	What is Cyclic Redundancy Check (CRC)? How CRC helps in dete1cting the errors? Find the CRC for P=110011 and M=11100011?	6M	CO2	L4
		OR	•	002	
4.		What is Framing? Explain the significance of framing and categorize various framing techniques implemented in Data Link layer.	12M	CO2	L4
		UNIT-III			
5.	a)	Identify the top 10 principles of the network layer in the internet.	6M	CO3	L2
	b)	Compare Internet Protocols IPV4 and IPV6.	6M	CO3	L4
		OR			
6.	a)	Describe hierarchical routing with an example. Mention its advantages and	6M	000	10
	b)	disadvantages. Explain Tunneling and Fragmentation in internetworking?	6M 6M	CO3 CO3	L2 L2
	5)		OW	005	
		UNIT–IV			
7.		Discuss about the elements of Transport protocols.	12M	CO4	L2
		OR			
8.	a)	Explain UDP Protocol with UDP Datagram Structure	6M	CO4	L2
	b)	Describe in brief Nagle's Algorithm	6M	CO4	L2
9.		UNIT-V What is DES algorithm? Apply DES algorithm with an example.	12M	005	L3
ອ.		OR	ı∠IVI	CO5	LJ
10.		Explain the RSA algorithm with a suitable example and discuss its merits.	12M	CO5	L2

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	.0u	M.C.A. III Semester Supplementary Examinations Ju	lv 2021		
		Operating Systems	., _0		
٨	Лах	. Marks: 60	Tim	ne: 3 Ho	ours
		Answer all five units by choosing one question from each unit (5 x	12 = 60 1	Marks)	
			Marks	со	Bloor
			indino		Leve
1.		UNIT-I List and explain the service provided by OS for the user and efficient			
1.		operating system.	12M	CO1	I
		OR			
2.		Explain the following types of OS			
		a) real time b) distributed system	12M	CO2	I
		UNIT–II			
3.	a)	Show how semaphore provides solution to reader write problem	6M	CO3	I
	b)	Explain field of process control back	6M	CO2	l
		OR			
4.	a)	Explain long term and short term scheduling	5M	CO1	
	b)	Define process state, write a neat sketch, and explain the fundamental			
		state transition of processes.	7M	CO2	
_	、				
5.	a)	Explain dead lock detection algorithm.	6M	CO2	
	b)	Briefly describe dead lock handling approaches	6M	CO2	
~	、	OR			
6.	a)	What is dead lock? What are necessary conditions an operating system must satisfy for a dead lock to occur?	6M	CO3	I
	b)	How can dead lock be prevent? Describe them.	6M	CO3	'
	0)		0 M	005	'
7.	a)	Compare contiguous and noncontiguous memory allocation	6M	CO3	l
	b)	What is paging? Explain paging hardware with translation look –aside	-		
	,	buffer.	6M	CO2	
		OR			
8.	a)	Explain demand loading of a page with the help of figure.	6M	CO2	
	b)	Explain with a neat diagram tree structure directory.	6M	CO2	I
		UNIT–V			
9.		Explain in detail about access matrix in system protection.	12M	CO5	I
		OR			
0.		Explain in detail system and network threats	12M	CO2	L