CBCS SCHEME

	18CS52
USN	100002

Fifth Semester B.E. Degree Examination, July/August 2021
Computer Networks and Security

Max. Marks: 100 Time: 3 hrs.

Tim	e: 3	hrs.	
		Note: Answer and FIVE full questions.	
			(10 Marks)
1	a.	Describe HTTP with persistent and non-persistent connections	(05 Marks)
	b.	Write a note on web caching.	(05 Marks)
	c.	Explain SMTP with example	
		Define a Socket. Describe the socket programming using TCP. Define a Socket. Describe the socket programming using TCP.	(10 Marks)
2	1002	Define a Socket. Describe the socket programming using 101. Describe in detail the services provided by DNS and explain the DNS messa	ge format. (10 Marks)
	Ъ.	Describe m devel	(10 Marks)
		the a help of diagram.	(10 Marks)
3	a.	Illustrate TCP and UDP segment structure with a help of diagram. With an FSM, explain the three phases of congestion control.	(10 Marks)
	b.		
		Explain the stop and wait protocol with FSM representation rdt2.1.	(10 Marks)
4	a.	Explain the stop and wait protocol with 1912-1. Explain the concept of transport layer multiplexing and De-Multiplexing.	(10 Marks)
	b.		(10 Marks)
5	a.	What is routing? Explain the structure of router.	(10 Marks)
	b.	Explain 1PV4 datagram format with neat diagram.	(101/2/11/2/)
			(10 Marks)
6	a.	Explain Dijkstra's algorithm with example	(06 Marks)
	b.	The state of the s	(04 Marks)
	C.		(40 % (
7	a	Explain four types of internet infrastructure attacks in Network security.	(10 Marks) (10 Marks)
,	b	1 an arightion protocols/ Exhialli Disalguilling	(10 Marks)
			(05 Marks)
	3 a		(05 Marks)
	t	Explain IP security and 1Psec. Explain RSA Algorithm. Using RSA algorithm encrypt a message M = 9. Explain RSA Algorithm. Using RSA algorithm encrypt a message M = 9.	Assume $p = 3$ and
	C	explain RSA Algorithm Toshig RST algorithm and also show the cipher text.	(10 Marks)
	(g=11. Find public and private keys	(40.75 1-2)
0	9	List the categories of streaming stored video. Explain one of them.	(10 Marks) (10 Marks)
3		b. Bring out the leaky bucket mechanism for traffic policing.	(10 Marks)
2			
c. Ally le	10	a. Write a short notes on:	
4		i) Netflix video streaming platform	(10 Marks)
		ii) VOIP with skpeb. Explain the types of multi media network applications.	(10 Marks)
		b. Explain the types of main media network apparent	
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.