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Regulation: R13 Code No:CS313/8

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III B. Tech I Semester Examinations – November, 2018

	111	COMPU							
Time: 3 hours		COMIT		SE/IT)		. Marks: 60M			
1111101	SECTION – A				Wax. Warks. Golvi				
Answe	er all ten questions					10×1 M	I=10M		
1.	Communication ber	tween a comput	ter and a ke	yboard	involves	tr	ansmission		
	a) Automatic	b)Half-dup	lex	c) Full	-duplex	d) Sim	plex		
2.	A set of rules that governs data communication								
	,	b) Standards		,	Cs		mentioned		
3.	Bits can be send ov	er guided and u	nguided m	edia as a	analog signal	by			
	a) digital modulation b) amplitude					modulation			
	c) frequency modul	ılation							
4.	Header of a frame g								
	a) synchronization	•				,	entioned		
5.	5. A subset of a network that includes all the routers but contains no loops is called								
	a) spanning tree b) spider structure c) spider tree d) none of the ment						mentioned		
6.	ICMP is primarily to								
_	a) error and diagno								
7.	An endpoint of an i	-				•			
0	a) socket	b) pipe		c) port	ŕ	none of the me	ntioned		
8.	Which one of the fo	_		_					
0	a) TCP b) UD	<i>'</i>	` ′	,	*	e mentioned			
9.	The packet of infor								
10			Segment		d) Frame	1 41	1.1		
10	To deliver a messag	ge to the correct	applicatio	n progra	ım runnıng o	n a nost, the	address		
	must be consulted a) IP b) MAC c	Dort		d) None of	the mentioned			
	a) IF U) MAC C) Port		d) Nolle of	me memoned			
			SECTIO)N _ R					
Answe	er all five questions		SECTIO				$5 \times 2M = 10M$		
11	. Outline the impo	rtance of protoc	cols.						
12	Group the OSI layers by function.								
13	List the responsibilities of data link layer.								
14	. Compare virtual circuit and datagram subnets.								
15	. Define Congestion	on.							

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SECTION - C

Answer all four questions

 $4 \times 5M = 20M$

- 16. Illustrate ISO-OSI model of computer network with a neat diagram (OR)
- 17. List and explain the major components of networking hardware and software
- 18. Explain the operation of the bit-oriented protocol HDLC with the required frames
- 19. Write short notes on: a) Go back NARQ b) Selective repeat ARQ
- 20. Discuss stop and wait protocol

(OR)

- 21. Demonstrate sliding window protocol using Go back n.
- 22. State the major difference between Distance Vector Routing and Link State Routing (**OR**)
- 23. Compute is the sub network address if the destination address is 200.45.34.56 and the subnet mask is 255.255.240.0

SECTION - D

Answer all two questions

 $2\times10M=20M$

24. a) Perform a comparative study between the ISO OSI model and the TCP/IP reference model b) Discuss about connection establishment and release in TCP

(OR)

- 25. Present a tutorial on User Datagram Protocol (UDP)
- 26. a) Discuss the uses of HTTP protocol and identify default port number of HTTP protocol b) List and discuss the types of DNS records

(OR)

- 27. a)Explain duties of FTP protocol.
 - b) Elaborate on WWW.