USN		10CS55
T10.1 ~	······································	

## Fifth Semester B.E. Degree Examination, June/July 2018 Computer Networks - I

Time: 3 hrs. Note: Answer any FIVE full questions, selecting at least TWO questions from each part. Max. Marks:100

at least TWO questions from each part.				
عدنته				
arpir	1	a. What is the difference between data and information?		
3		b. What are the basic characteristics of data communication? Explain.	(02 Marks)	
* ;		c. What are the functional roles of the following:	(06 Marks)	
1				
ا. د		(iv) Transport layer (ii) Data link layer (iii) Network layer	(12 Marks)	
**************************************	_	May .		
Ş	2	a. What do you mean by a composite signal? How does it help in digital data Explain.		
	1		transmission?	
76. 76.	Į	Define: (i) Bit rate (ii) Bit length.	(04 Marks)	
۵. د		What is meant by Transmission impairement? Discuss 'Noise'.	(02 Marks)	
9 ,4	A XX	the distance between the true of the distance between the true	km2 Arsyma	
	J.	propagation speed in the cable is $2.4 \times 10^8$ m/s.	(04 Marks)	
\$ V	У <b>3</b> а	Why does multiple to the	(U4 Warks)	
ġ	b	The transplexing Significant in data transmission 9	♦ (02 Marks)	
3	c	in the system of	(04 Marks)	
3	d	The same than building (ii spread cheefman) E	(08 Marks)	
		What do you mean by datagram network? Explain its working principle.	(06 Marks)	
4	a.	What do you mean by virtual circuit networks To 1: 100	,	
		What do you mean by virtual circuit network? Explain the establishment pha	ise of virtual	
	b.	Which are the two types of transmission errors? Family	(08 Marks)	
	c.	Discuss the error detection and correction techniques in block coding.	(04 Marks)	
		block coding.	(08 Marks)	
5		PART & B		
3	a.	What do you mean by flow control and error control? Discuss its improvisation and-wait ARQ to Go-Back-N protocol and Go-Back N to sale of	n from at	
		and-wait ARQ to Go-Back-N protocol and Go-Back-N to selective repeat protoc	ol	
	b.	What is the frame format of PPP? Explain.	(12 Marks)	
		dame format of FFF Explain.	(08 Marks)	
6	a.	Explain slotted ALOHA.	ŕ	
	b.	Write the chip sequence for A-stations and for A	(08 Marks)	
	c.	What is the role of MAC sublayer? Explain 802.3 MAC-frame.	(04 Marks)	
_			(08 Marks)	
7	a.	What is GSM? Explain.	(00.75	
	b.	What are the issues with Hidden and Exposed node? Explain.	(08 Marks)	
	C.	Which are the layers of Bluetooth? Explain.	(06 Marks)	
8	a.	Compare HVV	(06 Marks)	
U	a. b.	Compare IPV <sub>4</sub> over IPV <sub>6</sub> .  What is NAT2 Explain with	(04 Marks)	
	о. С.	What is NAT? Explain with an example.	(08 Marks)	
	Ŭ. <	What is the need IP addressing scheme? Explain IPV <sub>4</sub> .	(08 Marks)	
		****	( - ··-································	