65/20

2011

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any five questions in which

Q. No. 9 is compulsory.

1 What is transmission impairment? Discuss various transmission impairments.

- Explain the various data encoding techniques for generating Digital Signals using analog data.
- 3. Explain and compare time division multiplexing and frequency division multiplexing.
- Winat is TCP/IP? Explain the functions performed by various layers of TCP/IP.

VM - 1/4

(Turn over)

	6. Howflow con	ntrol is achieved using	g sliding-window	
	. flow control to	echnique? Explain	with diagram. '	
Į.	7. Channel acc	ess is handled at the	e MAC sublayer	
N.	of the data li	ink layer in the OS	model. Discuss	
	the five majo	or types of channel a	ccess.	
	8. Explain any t	two of the following		
	(a) Frame re	elay		
	(b) Network	security		
	(c) Transmi	ission characteristic	s of optical fibre	
	Transport		USI model, the sible for splitting	
		segments.		
		ransport layer reduc	es overhead?	O'N
	(i)		*	
	(ii) TCF	-	1	
	(iii) IF		100	
	(iv) Divis	s		
	VM - 1/4	(2)	Contd.	

(C)	Asy	nchronor	is proto	cols a	ire wide	aly used i	11:
	(i)	Repeate			- Ma		
	(ii)	Routers					
	(iii)	Modems	3				
	(iv)	-Bridges		^	-,		
(d)	M	en mess	age dat	a is m	istakes	s for cont	ioi
		a, this is o					ï
	_(i) [,]	Synchro	nization	ı			
	(ii)	Flow cor	ntrol				
	(iii)	Data tra	nsparer	тсу			
	(iv)	Line dis	cipline				
(e)	An	HDLC _			sta	ation sen	ds
	COL	nmands.					
(1)	Αc	ollision ca	nnotoc	curs i	n a	LA	N.
	(i)	Ethernet					
	(ii)	Token rii	ng an				
i i	,(:::\	-LDDI					
	(iv)	(ii) or (iii)				
(9)	Thi	ck coaxia	l çable	is th	e med	ium for t	ne
			tandar	d.			/
	(i)	10 Base	5				3
VM – 1/	4		(3)		,	Turn ove	-1
AND THE RESERVE AND THE PERSON NAMED IN COLUMN TWO IN COLU	(A)		(5)		,	rantove	1)
					7		

	(-), 10 Base T	
	(ng. 10 Base 2	
	(n) 1 Base 5	
(h)	In - DM, it 5 signals are to be multiplexed	39
	leastcarriers, each of a differ-	
	frequency, must be modulated :	
	(i. < 1	
	(ii) 5	
	(ii) 6 -	
	(iv) 10	

VM - 1/4 (100) (4) BCA(VI) -- 600