Q.P. Code: 20939

		(Time: 2½ hours)		
		Total Marks: 75		
N. B.:	 (2) Make <u>s</u> (3) Answer (4) Numbe (5) Draw <u>n</u> 	stions are <u>compulsory</u> . uitable assumptions wherever necessary and <u>state the assumptions</u> made. Is to the <u>same question</u> must be <u>written together</u> . It to the <u>right</u> indicate <u>marks</u> . eat labeled diagrams wherever <u>necessary</u> . Jon-programmable calculators is <u>allowed</u> .		
1. a. b. c. d.	Define Data List and exp What do yo	y three of the following: Communication. Explain its various components. Idain the functions of ISO's OSI Model Layers. Under mean by Transmission line Impairments? Explain in detail. Ifollowing terms in relation with Data Communication Half Duplex System. Full Duplex System.	15	
e. f.		lulation. Write a short note on Amplitude Modulation. following terms of Data Transmission Parallel Transmission. Serial Transmission.		
2. a.	-	y three of the following: e between Frequency Division Multiplexing (FDM) and Time Division Multiplexing	15	
b.	(TDM).	ort note on Spread Spectrum Modulation (SSM) techniques along with its		
c.		major classifications of transmission media.		
d.		ket Switching? Explain its methods of implementation.		
e.	Define <i>Erro</i>	r under scope of networking and explain its types.		
f.	Explain the (i) (ii)	following terms Forward Error Correction (FEC). Automatic request for Retransmission (ARQ).		
3.	Attempt <u>an</u>	<u>y three</u> of the following:	15	
a.	Explain ALOHA system with its two versions.			
b.	Discuss GO BACK N ARQ protocol in detail.			
c.	Explain Bluetooth Layered Architecture.			
d.		e between satellite communication and optical communication.		
e.	-	following connecting devices in networking		
	(i)	Bridge.		
	(ii)	Gateway.		

[TURN OVER]

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f.

Explain CSMA with collision detection.

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4.	Attempt <u>any three</u> of the following:	15
a.	Explain the terms:	
	(i) Connection Oriented Network Services.	
	(ii) Connectionless Network Services.	
b.	Write a short note on static algorithm and explain any two.	
C.	What is fragmentation? Explain its various strategies.	
d.	Draw and explain IPv4 header structure.	
e.	For a given class 'C' network 195.188.65.0 design equal subnets in such a way that each subnet has atleast 60 nodes.	า
f.	A class 'B' network on the internet has a subnet mask of 255.255.240.0. What is the	
1.	maximum number of hosts per sub networks?	
	maximum number of nosts per sub networks:	
5.	Attempt <u>any three</u> of the following:	15
5. a.	Attempt <u>any three</u> of the following: Write a short note on TCP.	15
	· ———	15
a.	Write a short note on TCP.	15
a. b.	Write a short note on TCP. Explain Addressing Issues of transport Protocol.	15
a. b. c.	Write a short note on TCP. Explain Addressing Issues of transport Protocol. What do you mean by Domain Name System? What is the use of the same?	15
a. b. c. d.	Write a short note on TCP. Explain Addressing Issues of transport Protocol. What do you mean by Domain Name System? What is the use of the same? Explain Simple Mail Transfer Protocol (SMTP).	15
a. b. c. d.	Write a short note on TCP. Explain Addressing Issues of transport Protocol. What do you mean by Domain Name System? What is the use of the same? Explain Simple Mail Transfer Protocol (SMTP). Write a short note on following	15
a. b. c. d.	Write a short note on TCP. Explain Addressing Issues of transport Protocol. What do you mean by Domain Name System? What is the use of the same? Explain Simple Mail Transfer Protocol (SMTP). Write a short note on following (i) TELNET.	15
a. b. c. d. e.	Write a short note on TCP. Explain Addressing Issues of transport Protocol. What do you mean by Domain Name System? What is the use of the same? Explain Simple Mail Transfer Protocol (SMTP). Write a short note on following (i) TELNET. (ii) FTP.	15

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