STRBLLIT Sem 7

Computer Networks

51155	TION: - 21/2 hrs 733061123	MARKS:- 75	
Note:	- (1) All questions are compulsory.(2) All questions carry equal marks.(3) Figures to the right indicates full marks	15	M
0.1	Attempt any three of the following		(21
a)	Describe the components of computer network	C01-(U) C01-(U)	
b)	Explain ring and hybrid topology	C01-(C)	
E)	Explain any three network classifications	C01-(R)	
d)	Describe transmission control protocol model	C01-(R)	
e)	Define: Gateway, router, network interface card	C01-(K)	
Ð	Discuss OSI and TCP layers in details		5M
Q.2	Attempt Any three of the following	C02 (U)	7,11
a)	Explain the position and function of physical layer	C02 (R)	
b)	Describe Attenuation, Distortion and Noise in signal	C02 (R)	
	Find the check sum of the following message	C02 (Ū)	
c)	10110001, 10101011, 00110101, 101000001.	C02 (O)	
	Show the sender and receiver side		
	The following is the original message		
35	11000011, 10110010, 00101010, 10100011, 11100001,	C02 (U)	
d)	11110011, 00001010, 00101011, 01001011. located it using	5	
	two dimensional parity check technique	C02 (R)	
e)	How to performance of the network can be increased	, ,	
f)	Explain forward error correction technique and why is it us	ed C02 (U)	
1			15M
Q.	Attempt Any Three of the following	C03 (R)	
a)	Explain network layer protocols	C03 (R)	
b)	Where network layer place and what are its duties?	,	
c)	Explain transparent and non-transparent fragmentation with	C03 (R)	
٠,	neat labelled diagram	1	
	The network address is 912.168.0.0/16 and 192. 168.5.2/2	s. C03 (U)	
d)	Find the subnet mask, number of network bits and host bits	3, 200	
	total number of host address	C03 (R)	
e)	Describe CIDR notation FIRM header format and des	- 2	
f)	Draw neat labelled diagram of IPv4 header format and des	C03 (U)	
*)	any four fields		

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Q.4	Attempt Any Three of the following	15M
a)	Define: packetizing, connection control, Addressing, flow control and error control CO4 (R)	
b)	Explain Encapsulation and Decapsulation CO4 (R)	
c)	Describe transport layer protocols CO4 (R)	
d)	Difference between TCP and UPD CO4 (U)	
e)	Explain header and data, source and destination port, total length and check sum CO4 (R)	
f)	Explain user datagram protocol CO4 (R)	
Q.5	Attempt Any Three of the following	15M
a)	Describe client server, peer to peer, Mixed paradigms CO5 (R)	
b)	Explain world wild web CO5 (R)	
c)	Where is application layer located and describe its duties CO5 (U)	
d)	What is the format of message CO5 (R)	
e)	Describe message transfer agent CO5 (R)	
f)	Write a short note on POP and IMAP CO5 (R)	