Q.P. Code - 11372

Time: 3 Hours

Marks: 80

N.I	3.: (1) Question No. 1 is compulsory.	
1 4.1	(2) Solve any three questions from the remaining five	
	(3) Figures to the right indicate full marks	
	(4) Assume suitable data if necessary and mention the same in the answer sheet.	
		201.0
Q1. Atte	empt any 4 questions	20M
` .	A) Explain the need of layered protocol architecture in OSI reference model.	[5]
	B) Give comparison among coaxial, optical fiber and twisted pair cables.	[5]
	C) Explain the persistent strategies of CSMA.	[5]
	D) Draw and explain IPv6 Datagram format.	[5]
	E) Distinguish between TCP and UDP transport layer protocol.	[5]
	F) Analyze how SMTP protocol in application layer helps to deliver the electronic	161
	mail?	[5]
		r = 1
Q2.)	A) Explain physical, logical, port addressing and socket addressing in networking.	[5]
	B) Explain in brief DSL, and HFC.	[5]
	C) Give classification of routing protocol. Explain in brief the link state and distance	r101
	vector algorithm with example.	[10]
		[5]
Q3)	A) Compare Static Routing and Dynamic Routing.	[5] [5]
	B) Explain the fields related to the fragmentation in the IP datagram header.	[5]
-	C) Explain the classful addresses of IPv4 with net ID and host ID.	زی
	D) Identify class, subnet mask, network address and broadcast address of the following	[10]
	IP addresses: 1 214 25 6 3 2 191.5.8.9 3 5.6.45.4 4. 230.45.89.63	[10]
	1. 214.25.6.3 2. 191.5.8.9 3 5.6.45.4 4. 230.45.89.63	
	D. J. Jan Han determon Protocol (LIDB) Header	[5]
Q4)	A) Draw and explain User datagram Protocol (UDP) Header.B) Compare TELNET and SSH application layer protocol.	[5]
	C) Draw and explain User datagram Protocol (UDP) Header.	[5]
	D) Explain in brief working of DHCP.	[5]
	D) Explain in other working of Direct.	
0.5	A) For the classless address 129.65.33.01/24 find	
Q.5)	1. Number of addresses in the block N 2. First address 3. Last address	[6]
1	B) Explain congestion control techniques used in TCP.	[4]
	C) Explain in detail the Routing protocols OSPF.	[5]
	D) Give comparison between Star, Mesh and Bus Topology.	[5]
	b) Give companion occurrence	
Q.6)	A) Explain Go-Back -N ARQ and Selective Repeat ARQ.	[5]
2.0)	B) Compare Repeaters, Hubs, Bridges, Switches, Routers network hardware devices.	[5]
	C) Explain in brief working of HTTP application layer protocol	[5]
	D) Draw and explain different fields of TCP header.	[5]

11372

Page 1 of 1

EXIC-Sem-JI/R.19/CCN/6

09-12-22