

Marking Scheme CA5C026 Computer Network Fundamentals

Q.1	i.	A single channel is shared by multiple signals by _____.	1
		(c) Multiplexing	1 Mark
	ii.	Which one of the following is not a function of network layer?	1
		(d) Error control	1 Mark
	iii.	Header of a frame generally contains-	1
		(d) All of these	1 Mark
	iv.	In the _____ method, after the station finds the line idle, it sends its frame immediately. If the line is not idle, it continuously senses the line until it finds it idle.	1
		(c) 1-persistent	1 Mark
	v.	IEEE has defined the specifications for a wireless LAN called _____, which covers the physical and data link layers.	1
		(c) 802.11	1 Mark
	vi.	ATM can be used for _____.	1
		(d) Networks covering any range	1 Mark
	vii.	In _____ forwarding, the full IP address of a destination is given in the routing table.	1
		(c) Host-specific	1 Mark
	viii.	Select the address of class A, B and C are-	1
		(c) Unicast	1 Mark
	ix.	The solution to decrease the load on the network when congestion occurs is _____.	1
		(d) Denying service to the users	1 Mark
	x.	Application layer offers _____ service.	1
		(a) End-to-end	
Q.2	i.	Relationship between transmission media and topology	2
		Justification	2 Marks
	ii.	OSI network architecture	8
		Diagram	2 Marks
		Each layers	2 Marks each
			(2 Marks*3)
OR	iii.	Multiplexing techniques	8
		Definition	2 Marks
		Techniques	2 Marks each
			(2 Marks*3)
Q.3	i.	Definition	2
			2 Marks

	ii.	ARQ		8
		Comparison	6 Marks	
		Diagram.	2 Marks	
OR	iii.	CSMA protocols		8
		Explanation	6 Marks	
		Diagram.	2 Marks	
Q.4	i.	Types of error	2 Marks	2
	ii.	ATM technology in LANs.		8
		Explanation	6 Marks	
		Example	2 Marks	
OR	iii.	Frame format of 802.3, 802.4 and 802.5.		8
		Definition	2 Marks	
		Differences	6 Marks	
Q.5	i.	Subnet addressing		2
		Definition	1 Mark	
		Example.	1 Mark	
	ii.	OSPF (Open Shortest Path First)		8
		Explanation	6 Marks	
		Diagram.	2 Marks	
OR	iii.	What is IP protocol? Differentiate between IPv4 and IPv6.		8
		Definition	2 Marks	
		Explanation with example.	6 Marks	
Q.6	i.	Techniques used to improve Quality of Service (QoS)		2
		List of techniques	2 Marks	
	ii.	Write short notes on any two		8
		(a) WWW (b) Email (c) DNS		
		Each Short note	4 Marks	
			(4 Marks*2)	
OR	iii.	Congestion control		8
		Definition	2 Marks	
		Explanation	6 Marks	
