[A-125]

No. of printed pages: 2

SARDAR PATEL UNIVERSITY

Post Graduate Diploma in Computer Application

Semester - I External ATKT Examinations

PGDCA-104 - Network Fundamentals Wednesday, 6th April, 2016

Tim	e: 02:	30 p.m. to 05:30 p.m.		Max	Marks: 70		
Q1.	Choc	se the most appropriate	option for e	each question.	[8]		
i.	Inter	connected collection of a	computers is known as				
	A)	internetwork	В)	computer network			
	C)	web	D)	LAN			
ii.	Tran	smission media are usual	d as				
	A)	Guided - Unguided	B)	Metallic – Non-Metallic			
	C)	Fixed - Unfixed	D)	none of these			
iii.	The	The number of bits that can be transmitted by a channel, a link or a network per second is					
	calle	d					
	A)	data rate	B)	baud rate			
	C)	bandwidth	D)	none of these			
iv.	Whic	Which of the following topology requires minimum cabling?					
	A)	star	B)	mesh			
	C)	ring	D)	bus			
v.	The signal from satellite is aimed at a specific area called						
	A)	uplink	В)	downlink			
	C)	repeater	D)	foot print			
vi.	Which of the following is not a valid form of CSMA?						
	A)	p-persistence	В)	Non-persistence			
	C)	1-persistence	D)	None of these			
vii.	Whi	ch of the following is <i>not</i>	e of using a computer network?				
	A)	high reliability	В)	scalability			
	C)	file sharing	D)	None of these			
viii.		A represents agreement between the communicating devices.					
	A)	protocol	В)	layer			
	C)	communication	D)	network			

Q2.	Answer the following questions (Any Seven):	[14]
a.	What are the various transmission modes? Explain any one in brief.	
b.	List all the layers of OSI model.	
c.	Explain LAN in brief.	
d.	What is modulation?	
e.	Explain broadcasting in detail.	
f.	Define : router	
g.	Discuss DNS with suitable example.	
h.	Explain FDM in brief.	
i.	What is internetwork?	
Q3.	Answer the following questions:	
a.	Write a note on computer networks.	[6]
b.	Discuss fiber optic cables.	[6]
	OR	
b.	Compare packet switching and circuit switching.	[6]
Q4.	Answer the following questions:	
a.	Explain mesh, star and tree topologies of LAN.	[6]
b.	Write a note on terrestrial microwave.	[6]
	OR	
b.	Write a note on CSMA.	[6]
Q5.	Answer the following questions:	
a.	Explain physical layer and network layer of OSI reference model in detail.	[6]
b.	Discuss TCP/IP model in detail.	[6]
	OR	
b.	Explain IEEE standard 802.3 cabling scheme in detail.	[6]
Q6.	Answer the following questions:	
a.	Write a note on electronic mail.	[6]
b.	Discuss Geosynchronous satellites.	[6]
	OR	
b.	Write a note on WWW.	[6]

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