SEAT	No.
SLAI	NO

No. of printed pages: 2

Max Marks: 70

[A-28]

Sardar Patel University

Post Graduate Diploma in Computer Applications (PGDCA) SEMESTER – I Examination

PS01CDCA24 : Network Fundamentals Tuesday, 17th April, 2018

Fime: 10:00 AM to 01:00 PM	

Q1.	Choose the most appropriate option f	or each question.	[8]		
i.	The backbone cable is used intopo	logy, to connect all nodes in a linear way.	,		
	A) Ring	B) Mesh			
	C) Star	D) Bus	· v		
ii.	In 10Base2, 2 is used to denote meters.				
	A) 200	B) 20			
	C) 2000	D) 185			
iii.	Inmode of transmission both statio	ns can transmit and receive at same time.			
	A) Simplex	B) Duplex			
	C) Half-Duplex	D) Full-Duplex			
iv.	IPv4 has bits of address space.				
	A) 16	B) 32			
	C) 64	D) 128			
٧.	connector is used with twisted pair of				
	A) RJ45	B) RJ11			
	C) BNC	D) RJ35			
vi.	Which of the following is a protocol?	D) 70B			
	A) URL	B) TCP			
	C) DNS	D) LDP			
vii.	Which of the following term is not suitab				
	A) BCC	B) CC			
	C) Attachment	D) RCC			
viii.		D) Unabiolded Twinted Place			
	A) Unused Twisted Pair	B) Unshielded Twisted Place			
	C) Unshielded Twisted Pair	D) None of these			
Q2.	Answer the following questions (Any	seven):	[14]		
i.	Define the term bit-rate with example.				
ii	List the layers of OSI reference model.				
iii.	What are major limitations of radio wave	es?			
iv.	Differentiate: circuit switching and pack	et switching			
٧.	What is DNS?				
		[PTa1			

vi.	Write full form of: HTTP, FTP.					
vii.	What is MODEM? What is its use?					
viii.	Briefly explain the components of URL.					
ix.	What are the major sources of light in fiber optics?					
Q3.	Answer the following questions:					
a.	What do you mean by the term "Computer Network"? Explain applications of computer networks in various fields.	[6]				
b.	What is guided transmission media? Explain twisted pair cables in detail.	[6]				
	OR					
b.	Differentiate LAN, WAN, and MAN by giving suitable examples of each.	[6]				
Q4.	Answer the following questions:					
a.	Write a note on TCP/IP reference model.	[6]				
b.	What do you mean by the term "Multiplexing"? Explain any one technique of	[6]				
	multiplexing.					
	OR					
b.	Explain parallel and serial transmission in detail.	[6]				
Q5.	Answer the following questions:					
a.,	Write a note on Token Bus.	[6]				
b.	What is Ethernet? Explain various cabling schemes under IEEE 802.3.	[6]				
	OR					
b.	What is topology? Write the name of the topologies. Explain any one topology in detail.	[6]				
Q6.	Answer the following questions:					
a.	Explain the term "Satellite". List and explain different types of satellites.	[6]				
b.	Write a note on WWW.	[6]				
	OR					
b.	Write a note on Name Servers.	[6]				