Total No. o	of Questions	:10]
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SEAT No.:			
[Total	No. of Pages :	: 2	2

## P3160

## [5461]-202 B.E. (E & TC)

## **COMPUTER NETWORKS**

	(Semester - I)(End Sem) (2012 Pattern) (404182)	
Time : 2	[Max	c. Marks : 70
	ons to the candidates:	
1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 and Q9 or Q10.	
2)	Neat diagrams must be drawn wherever necessary.	
<i>3</i> )	Black figures to the right indicate full marks.	
<i>4</i> )	Use of logarithmic tables slide rule, Mollier charts, electronic pocket	et calculator
	and steam tables is allowed.	
5)	Assume suitable data, if necessary.	
01)		• ,•
<b>Q1</b> ) a)	Explain with suitable diagram, components used for data comm	
1.		[6]
b)	Prove that for pure ALOHA throughput is @ 18%.	[4]
	OR	
02)		. 1 ' I ITD
<b>Q2</b> ) a)	Explain with suitable example how effect of noise is reduced.	
1. )	cable.	[5]
b)	Draw and explain transition state diagram used in PPP protocol	col. <b>[5]</b>
		$\sim$
<b>()</b> ()	Lastific COMA (CD and Stalls for an instance and instance	767
Q3) a)	Justify, CSMA/CD not suitable for wireless communication.	[6]
b)	Explain different services provided by IEEE802.11.	(4)
	OB	6.
	OR	,
O(1)	Evaloin following (i) Donoston ii) NIC iii) Bridge	[6]
<b>Q4</b> ) a)		[6]
b)	Draw and explain LCP Frame Format.	[4]
<b>05</b> ) a)	Evalois subsections and suppose atting with a titable arounds	r <i>E</i> 1
<b>Q5</b> ) a)	Explain subnetting and supernetting with suitable example.	[5]
b)	Explain with suitable diagram how ARP packet is encapsulat	ed directly
	into data field in MAC frame	[5]
2)	Draw and explain IPv6 datagram format	[ <i>7</i> 7]
c)	Draw and explain if vo datagram format	[7]
	OP 5°	

<b>Q6</b> )	a)	Write short note on - Open shortest path first routing protocol.	
	b)	Explain multiplexing and demultiplexing in IP layer.	[6]
	c)	For IP address 10.65.10.0 and subnet mask 255.255.255.224 calculation in No. of subnet iii) No. of host per subnet iii) Valid subnet	
<b>Q</b> 7)	a)	Explain different categories of services are useful for describing transport service.	the <b>[6]</b>
	b)	Explain 4 ways of releasing using 3 ways handshake.	[6]
	c)	Write short note on TCP congestion control.  OR  Explain TCP timer management.  Explain transport service primitives.	[5]
		OR OR	
<b>Q</b> 8)	a)	Explain TCP timer management.	[8]
	b) ,	Explain transport service primitives.	[5]
	c)	Explain in brief services by transport layer.	[4]
<b>Q9</b> )	a)	Explain Hyper Text Transfer Protocol.	[6]
	b)	Explain subsystem of e-mail system.	[6]
	c)	Explain with suitable example components of DNS.  OR	[4]
<b>Q10</b> ,	)a)	OR Explain POP	[6]
QIO,	b)	Explain Static & Dynamic Web Pages.	[6]
	c)	Write short note no WWW.	[4]
		OR Explain POP Explain Static & Dynamic Web Pages. Write short note no WWW.	