Total No. of Questions: 10] SEAT I		. :
P207	4 [Tot	al No. of Pages : 2
	[5059] - 680	
	B.E. (Information Technology)	
	ADVANCED COMPUTER NETWORKS	I •
	(2012 Pattern) (Semester - II) (Elective - II	I)
		/ [Max. Marks :70
Instruc	tions to the candidates:	
1)	Neat diagrams must be drawn wherever necessary.	
2)	Figures to the right indicate full marks.	
3)	Assume Suitable data jf necessary.	
Q1) a)	Describe architecture of WiMAX.	[6]
b)	What are different network elements?	[4]
	OR	
Q2) a)	What are ATM traffic descriptor? Explain.	[6]
b)	What is Network address translation?	[4]
Q3) a)	Draw header structure of ATM cell at U-N interface.	[6]
b)	What is multiprotocol label switching?	[4]
	OR	
Q4) a)	Describe in detail VoIP.	[6]
b)	What is multirate circuit switching?	[4]
Q5) a)		
4 \	compression techniques. Explain any one detail.	[10]
b)	Describe various components of TCP congestion con	trol? [8]

OR

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Q6)	a)	What are different strategies to avoid congestion? Explain any one in detail. [10]	
	b)	Define QoS? How RSVP supports to improve the overall Q network?	oS of [8]
Q7)	a)	Explain characteristics of Mobile IP.	[8]
	b)	What is MPLS? Explain the operations of MPLS in detail.	[8]
		OR	
Q8)	a)	What is GMPLS? Where it is used? Justify your answer.	[8]
	b)	Discuss the challenges of traffic engineering in IP/MPLS netwo	rk.[8]
Q9)	a)	Explain basic architectural stack of IEEE 802.16.	[8]
	b)	Explain Cluster-Based wireless networks.	[8]
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Q10)a)	Describe high rate and low rate WPAN.	[8]
	b)	Explain in detail MAC implementation of IEEE 802.16.	[8]

