Total No.	of Q	Questions	:	10]	
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## P3144

## [5154]-710

[Total No. of Pages :2

## B.E. (Information Technology) ADVANCED COMPUTER NETWORKS (Elective - III) (2012 Pattern) (Semester - II) (End Sem.) (414463E)

Time: 2½ Hours] [Max. Marks : 70] Instructions to the candidates: 1) Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. 3) Assume suitable data, if necessary. Describe network architecture of ISO/OSI model. *Q1*) a) [6] What are different network elements? b) [4] OR What are ATM traffic descriptor? Explain. **Q2)** a) [6] What is Network address translation? [4] b) *Q3*) a) Draw header structure of ATM cell at U-N interface. [6] What is EIGRP? Explain in brief. b) [4] Describe internet working in ATM. **Q4**) a) [6] List various ISDN services? [4] b) **Q5**) a) What do you mean by lossless compression? State different [10]lossless compression techniques. Explain any one detail. Describe various components of TCP congestion control? b) [8] OR **Q6**) a) What are different strategies to avoid congestion? Explain any one [10] in detail. Define QoS? How RSVP supports to improve the overall QoS of [8] network?

<b>Q</b> 7)	a) Explain routing protocol to support QoS.		[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 network.	[8]
Q9)	a)	Explain basic architectural stack of IEEE 802.16.	[8]
	b)	Explain cluster-based wireless networks.	[8]
		OR	
Q10	<b>))</b> a)	Describe high rate and low rate WPAN.	[8]
	b)	Explain in detail MAC implementation of IEEE 802.16.	[8]

