Time . 3 hours

Maximum Marks: 70

## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

## Term-End Examination

00537

June, 2014

## **BICS-017: COMPUTER NETWORKS**

21/1/0.0104/0				
Note: Attempt any seven questions. All questions carry equal marks.				
1.	(a)	Discuss the different layers of TCP/IP protocol.	6	
	(b)	What is the relationship between Services and Protocols? Explain.	4	
2.	(a)	Describe the principles of Application Layer Protocol.	4	
	(b)	Define the term Socket. List and explain the different types of sockets.	6	
3.	(a)	Explain in detail how TCP provides flow control.	5	
	(b)	Explain about the structure of UDP Header with diagram.	£	

4.	(a)	What is Routing? Differentiate between Unicast and Multicast Routing.	5
	(b)	Compare the Header field of IPv4 and IPv6 with respect to functionality of each field.	5
5.	Draw	and describe different fields of ATM cell	
	forma	at. Also list various functions performed by	
	ATM	adaptation layer. 4+6=	10
6.	(a)	What is Hub? Explain the purpose of Hub, Switches and Gateways in computer networks.	7
	(b)	Explain the purpose of ARP.	3
7.	(a)	State and explain the various services provided by a data link layer.	6
	(b)	What is piggybacking? State drawbacks of Stop and Wait protocols. 2+2	=4
8.		is Multi-media? What are the steps yed for streaming Audio and Video? 2+8=	:10
9.	(a)	What is the difference between Cryptography and Secured system?	5
	(b)	Explain about public key cryptography.	3
	(c)	What do you mean by on-line security?	2

- 10. Write short notes on any two of the following: 5+5=10
  - (a) Ethernet
  - (b) Integrity
  - (c) PPP