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**BICS-017** 

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

## **Term-End Examination**

00153

June, 2018

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

Time: 3 hours Maximum Mark				
<b>Note:</b> Attempt any <b>seven</b> questions. All questions equal marks.				
1.	(a) ·	What is OSI reference model? Explain encapsulation terminology.	5	
	(b)	What is guided media? Explain twisted pair in detail with neat and clean diagram.	5	
2.	(a)	Distinguish between packet switching and circuit switching. Also discuss about virtual circuit switching.	5	
	(b)	Explain the header format of IPv4 and IPv6. Compare their each field.	5	
3.	Definin IP	ne mobility. Explain multi-casting performed	10	

4.	(a)	Discuss how TCP provides flow control.	Э
	(b)	Explain about the structure of UDP header with diagram.	5
5.		t is multimedia? What are the steps followed reaming audio and video?	10
6.	(a)	What do you understand by topology? Explain tree and mesh topology in detail.	5
	(b)	Explain how modems act as network control devices.	5
7.	(a)	Explain how audio compression for MPEG-2 in the Internet takes place.	5
	(b)	What are the different types of OSPF routers? Explain any two of them.	5
8.	(a)	Differentiate between twisted pair, coaxial cable and fibre optics.	5
	(b)	What is meant by simplex and half-duplex communication system? Give representation examples of each.	5
9.	(a)	Compare and discuss LAN and MAN systems.	5
	(b)	Draw a sketch outlining the MAN topology in your town or city.	5

10. Write short notes on any **four** of the following:  $4 \times 2 \frac{1}{2} = 10$ 

- (a) HTTP
- (b) Subnet Masking
- (c) Gateway
- (d) Switch
- (e) Cryptography

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