

00256

**B. TECH. IN COMPUTER SCIENCE AND  
ENGINEERING  
(BTCSVI)**

**Term-End Examination**

**June, 2013**

**BICS-017 : COMPUTER NETWORKS**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *Attempt any seven questions. All questions carry equal marks.*

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1. Distinguish between TCP/IP and OSI Reference Models. 10
  
2. How does DNS work ? Describe the principles of application layer protocols. 2+8
  
3. (a) What do you mean by TCP and UDP ? 5  
(b) Explain TCP header and working of the TCP protocol. 5
  
4. (a) Write the services provided to the Transport layer by the Network layer. 5  
(b) Convert the IP address whose Hexadecimal representation is C22F15B2. 5

5. Compare IPv4 and IPv6. **10**
6. Differentiate between the static and dynamic routing with their pros and cons. **10**
7. (a) State the various design issues for the data link layer. **7**  
(b) What is piggybacking ? **3**
8. Explain the following : **4+3+3**  
(a) Ethernet  
(b) Aloha  
(c) ARP
9. Define cryptography with the help of block diagram, explain the symmetric key cryptograph. **3+7**
10. Write short notes on the following (*any two*). **5x2=10**  
(a) Streaming Audio  
(b) Digital Audio  
(c) Real time protocol
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