

**DIPLOMA – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (DCSVI)**

**Term-End Examination**

**00290**      **December, 2017**

**BICSE-006 : ELECTIVE – COMPUTER NETWORKS**

*Time : 2 hours*

*Maximum Marks : 70*

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**Note :** Answer **five** questions in all. Question no. 1 is **compulsory**. All questions carry equal marks.

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1. (a) Discuss protocol hierarchies in a network briefly. 7  
(b) Compare and contrast connection-oriented and connectionless services. 7
2. (a) What are the functions of a data link layer ? Explain them briefly. 7  
(b) Explain about Repeaters, NICs and Bridges briefly. 7
3. (a) Explain Bluetooth Architecture. 7  
(b) What is Ethernet ? Discuss briefly. 7

- 4.** (a) Explain Store and Forward packet switching. 6
- (b) Describe Optimality Principle. 6
- (c) Discuss Congestion Control. 2
- 5.** (a) What are the various elements of transport protocol ? Explain them. 7
- (b) Explain RPC. 7
- 6.** (a) What is DNS ? Discuss with the help of suitable example. 5
- (b) Explain MIME. 5
- (c) Discuss SMTP. 4
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