

A (Printed Pages 3)  
(20620) Roll No. ....  
B.Sc. Com. Sc.- VI Sem.

**NP-3612 (CV)**

**B.Sc. (Computer Science)**

**Examination, June-2020**

**COMPUTER NETWORK**

**(B.C.S.-602)**

*Time : Two Hours ] [Maximum Marks : 75*

**Note :** Attempt all the Sections as per instructions.

**Section - A**

**Note :** Attempt any four questions. Each question carry 3.75 marks.

$3.75 \times 4 = 15$

1. What is computer network?
2. What is meant by topology? Name some popular topologies.
3. Write one difference between telnet and ftp.
4. What is a communication channel? What

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- choices do you have while choosing a communication channel for a network?
5. What is firewall? What are different firewall techniques?

**Section - B**

**Note :** Attempt any one questions out of the following each question carry 15 marks.

$1 \times 15 = 15$

6. Discuss the purpose of data link layer in OSI reference model.
7. Find out what networks are used at your college. Describe the network types, topologies and switching method used there. <https://www.ccsustudy.com>
8. What kind of network service (connectionless or connection oriented) does internet use and why?

**Section - C**

**Note :** Attempt any two questions out of the following. Each question carry 22.5 marks each.

$2 \times 22.5 = 45$

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9. Explain OSI reference Model and also tell us that which OSI layers handles the following:
  - (a) Dividing the transmitted bit stream into frames.
  - (b) Determining which route through the subnet to use.
10. (a) Explain static and dynamic channel allocation in LAN and MAN's.
  - (b) Explain the term CSMA, CSMA/CD.
11. Explain the IEEE standards for communications.
12. What is meant by topology and explain the different topologies of a computer network.
13. Explain following terms :
  - (i) Telnet
  - (ii) FTP
  - (iii) DNS
  - (iv) SMTP