



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back/Scholarship Exam – 2081/2082 Chaitra/Baishakh

Program: Diploma in Computer Engineering/  
Information Technology Full Marks: 80

Year/Part: III/I (2022) © Arjun Pass Marks: 32

Subject: Data Communication and  
Computer Network Time: 3 hrs.

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*



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Attempt any **EIGHT** questions.

1. Explain Transmission impairment. Describe the block diagram of communication system. [4+6]
2. Differentiate between MAN and WAN. Explain OSI reference model. [4+6]
3. What is a public switched telephone network? Explain fiber optic cable with its applications. [3+7]
4. What is framing? Explain the issues of data link layer. [2+8]
5. What is Ethernet? Explain ALOHA and VLAN. [3+7]
6. Calculate network address, usable host address number of subnets and broadcast address for a network of 192.168.1.20/26. [10]
7. Explain quality of service. Differentiate between TCP and UDP. [4+6]
8. What is PoP3? Differentiate between HTTP and HTTPs. [4+6]
- 9
  - a. What is a Router? Describe the Client-Server Model with figure. [2+4]
  - b. What is IP Address? List the types of IP Address. [4]
10. Write short notes on : (any **TWO**) [2x5]
  - a. DNS
  - b. HDLC
  - c. Guided media
  - d. Analog Data Transmission
  - e. Properties of Secure Communication

Good Luck !

# Diploma Fifth Semester Advanced Communication Questions Paper

**M Carnoy**



## **Diploma Fifth Semester Advanced Communication Questions Paper:**

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**Which Degree in Britain**, 1999 A comprehensive guide to full time degree courses institutions and towns in Britain

**The Chronicle**, 1875

**"Code of Massachusetts regulations, 1998"**, 1998 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**"Code of Massachusetts regulations, 1999"**, 1999 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**Peninsular Methodist**, 1891

**"Code of Massachusetts regulations, 2005"**, 2005 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

**The Massachusetts register**, 1998

**Cornell University Courses of Study** Cornell University, 2003

**Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education, 2000

**Farmers' Review**, 1896

**Editor & Publisher**, 1921 The fourth estate

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