

**Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF
COMMERCE AND ECONOMICS, PONDA-GOA
B.C.A CBCS (SEMESTER-IV) EXAMINATION, JULY 2021
DATA COMMUNICATIONS**

Duration: 2 hours

Marks: 30

Q1) Answer **any five** questions from the following (5*2=10)

1. What is a protocol? Explain the key elements of protocol.
2. Draw the diagram to show the relationship between TCP/IP layers and addresses.
3. What are the advantages of fibre optics?
4. Explain the function of Address Resolution Protocol.
5. Where can UDP be used?
6. Differentiate between Intranet and Extranet.
7. How is digital certificate different from digital signature?
8. State the main tasks associated with a network administrator.

Q 2) Answer **any four** questions from the following: (4*5=20)

1. With the help of a neat diagram, explain the interaction between layers in OSI Model.
2. Write a short note on Manchester and differential Manchester encoding scheme.
3. With the help of a neat diagram, explain the IPv4 header.
4. With the help of a neat diagram, explain the connection establishment process of TCP.
5. Write a short note on Domain Name System.
6. Explain in brief any five network security issues.

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