

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

Duration: 2 hours

Marks: 25

Q1. Answer **any five** questions out of the following : (5*2=10)

1. State and explain the common components of network.
2. Explain in brief mesh topology.
3. Name any two advantages and two disadvantages of optical fibre.
4. Define flow control and error control.
5. Explain in brief gateways.
6. Explain in brief the function of network layer.
7. Explain UDP header.
8. What is cryptography? State the importance of cryptography.

Q2. Answer **any three** questions out of the following: (3*5=15)

1. Draw the OSI reference model and briefly explain the functionalities of physical layer.
2. Explain the working of Stop and Wait Protocol.
3. Illustrate with an example Shortest Path Routing Algorithm.
4. Explain in detail the TCP connection establishment.
5. Write a short note on Domain Name System.

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