

**Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE
AND ECONOMICS, PONDA-GOA
B.C.A (SEMESTER-IV) EXAMINATION, APRIL 2019
COMPUTER NETWORKS**

Duration : 2 hours

Marks: 50

Q I) A. Define the following terms: (05*01=05)

- | | | |
|-----------------|------------|-----------------|
| 1. ICMP | 2. Framing | 3. Flow Control |
| 4. Piggybacking | 5. ARP | |

B. Answer the following:

1. Which are the three types of Data Communication Methods? (3)
2. Briefly explain WAN. (2)

QII) Answer the following:

1. Explain in brief Mesh Topology. (2)
2. With the help of diagram explain Fibre Optic Cable also state its advantages. (4)
3. Write a short note on the following: (4)
 - i. LAN
 - ii. Infrared Waves

QIII) Answer the following:

1. Explain the working of Stop and Wait Protocol. (5)
2. Explain HDLC Protocol Frame Format. (3)
3. Generate Hamming Code for Data : 1101. (2)

QIV) Answer the following:

1. Explain in detail Link State Routing Algorithm. (5)
2. Compare Virtual Circuits with Datagram Subnets. (5)

QV) Answer the following:

1. Explain UDP Protocol. (2)
2. Explain SMTP Protocol with neat Diagram. (3)
3. What is FTP? With a neat diagram explain the working of FTP. (5)

XXXXXXXXXXXXXXXXXXXX