

Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce & Economics
Ponda - Goa
B.C.A. (Semester - IV) Examination, April 2017
COMPUTER NETWORKS

Duration: 2 Hours

Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate Full Marks.

Q.I.A) Define the following terms: (5*1=5)

1. Congestion
2. Simplex
3. Mesh Topology
4. Full Duplex
5. NODE

B) Answer the following in one /two sentences each. (5*1=5)

1. What is the reason for using layered protocols?
2. Write about guided and unguided transmission media?
3. What are the three types of data transfer techniques?
4. List the different functions of network layer.
5. What are the responsibilities of session layer?

Q.II) Answer the following.

1. What is Framing? (2)
2. How to detect source errors? (3)
3. Explain the Functionalities of Physical Layer (5)

Q.III) Answer the following.

1. What is bit stuffing? (2)
2. Explain the frame format for HDLC Protocol. (3)
3. Explain the working of One Bit Sliding Window Protocol. (5)

Q.IV) Answer the following.

1. Explain Strict source routing and Loose Source Routing. (2)
2. Explain byte stuffing. (3)
3. Illustrate with an example Shortest Path Routing Algorithm. (5)

Q.V) Answer the following.

1. Explain UDP Header. (2)
2. Explain SMTP protocol. (3)
3. Write a short note on Domain Name System. (5)

XXXXXXXXXXXXXXXXXXXX