

Vidya Vikas Mandal's
Shree Damodar College of Commerce & Economics, Margao-Goa
TY B.Voc.(ST), Semester-VI, Semester End Examination, June 2022
STG 602 Computer Networks

Duration: 2 hours

Max Marks: 60

Instructions: 1) Figures to the right indicate Full Marks.

2) All Questions are compulsory, however there are internal choices.

3) Draw diagrams wherever necessary.

Q1. Answer any 5 of the following.

5 x 2 = 10

- a. What is PAN?
- b. What is a Parity Bit?
- c. Give one point of difference between Hub and Switch.
- d. List any 2 advantages of HTTP.
- e. What is Circuit Switching?
- f. What is IPv6?
- g. List one functionality of Post Office Protocol?

Q2. Answer any 5 of the following.

5 x 2 = 10

- a. List the layers in the TCP/IP model in order.
- b. Why is Fiber Optic cable better than Copper cables?
- c. What is the concept of Flooding with respect to Routing?
- d. List any one advantage of using Domain Names.
- e. List the port numbers is used by HTTP and SMTP.
- f. What is the Subnet Mask of class C IPv4 address and how many total hosts can it have?
- g. What is an Internetwork?

Q3. Answer the following.

10

- A. Briefly explain the layers in the ISO-OSI model. (5)
- B. Explain the concept of LAN. (5)

OR

- C. Explain the working of a Star Topology. (5)

Q4. Answer the following.

10

- A. Explain the working of Stop-And-Wait ARQ protocol. (5)
- B. Describe the Ethernet Frame Format. (5)

OR

- C. Explain the Bit Stuffing Framing method. (5)

Q5. Answer the following. 10

- A. Discuss the working of Address Resolution Protocol (ARP). (5)
- B. Explain the concept of Classless Inter Domain Routing (CIDR). (5)

OR

- C. Explain the working of Distance Vector Routing Protocol. (5)

Q6. Answer the following. 10

- A. Discuss the difference between TCP and UDP. (5)
- B. Explain the concept of Back-Pressure and Choke packets in Congestion control. (5)

OR

- C. Describe the working of SMTP. (5)

=====ALL THE BEST=====