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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 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=====