SANSKRITI UNIVERSITY	**SANSKRITI UNIVERSITY** Mathura, Uttar Pradesh	**Enrol. No:**

Semester End Examination - January 2022
Course Code : CSE 601 Course Name : High Performance Networking
School of Engineering & Information Technology

Programme: M.Tech (CSE) **Semester: III**
Time: 3 hrs **Max. Marks:100**

PART – A (10 questions X 2 marks = 20 Marks)
Answer ALL the Questions

1. Attempts all parts. All parts carry equal marks. Write answer of each part in short.

a. When queue will be formed in a network? **[2]**

b. What are the Considerations for Traffic Management in Congested Network? **[2]**

c. What is the difference between Hub, Switch, and Router? **[2]**

d. What is DNS? **[2]**

e. What is a Proxy Server and how do they protect the computer network? **[2]**

f. What is a VPN? **[2]**

g. What is the difference between Firewall and Antivirus? **[2]**

h. Why is layered architecture of network preferred? **[2]**

i. Discuss about any two methods of framing. **[2]**

j. Mention the advantages of fiber optics **[2]**

PART – B (4 questions X 5 marks = 20 Marks)
(Answer all questions)

2. With related diagram, explain _Media Access Control' sub-layer. What do the MAC standards specify? **[5]**
3. Specify the generic applications of IP protocols **[5]**
4. What are the Attributes of global network? **[5]**
5. Compare TCP and IP services. **[5]**

PART – C (3questions X 10 marks = 30 Marks)
Answer Three out of Four Questions

6. What do you mean by multicast IP? Discuss about providing reliability in multicasting. **[10]**
7. Distinguish between FTP and TFTP. **[10]**
8.(a) Describe elaborately ADSL modem technology **[10]**
(b) Enumerate SONET layers and briefly describe their functions with a neat diagram.
9. Which are the two sub layers of ATM Adaptation Layer (AAL)? Describe their responsibilities with the help of a diagram. **[10]**

PART – D (2questions X 15 marks = 30 Marks)
Answer Two out of Three Questions

10. Explain: 0 Label switching ii) Queuing algorithms. **[15]**
11. Explain the Quality of Service (QoS) parameters of ATM. **[15]**
12. Write notes on any two: **[15]**
i) VOIP ii) RSVP iii) Mobile adhoc networks iv) Bluetooth