
 <b>SURESH GYAN VIHAR UNIVERSITY</b> <small>Accredited by NAAC with 'A' Grade</small>		<b>INTERNAL ASSIGNMENT - 1</b>
<b>Course</b>	<b>MCA</b>	<b>Data Communication &amp; Computer Network</b>
<b>Semester</b>	<b>1</b>	
<b>Total Marks:</b>	<b>15</b>	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A. Explain DHCP scope resolution with example.
  
- B. Explain each layer of OSI reference model.
  
- C. What is Ethernet? Explain frame format of 802.3.

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A. SMTP is a push protocol.
  
- B. Which of the TCP /IP transport protocol would you select for the following applications? State the reason for your choice.
  
- C. Network
  
- D. MAC Protocol
  
- E. Compare IPv4 and IPv6. Write the advantages and limitations of IPv6.

 <b>SURESH GYAN VIHAR UNIVERSITY</b> <small>Accredited by NAAC with 'A' Grade</small>		<b>INTERNAL ASSIGNMENT - 2</b>
<b>Course</b>	<b>MCA</b>	<b>Data Communication &amp; Computer Network</b>
<b>Semester</b>	<b>1</b>	
<b>Total Marks:</b>	<b>15</b>	

**Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)**

- A. What are the different types of Mesh Topology?
- B. Explain security features, limitations and applications of IPv6?
- C. Write short note on Cryptography and Digital Signature

**Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)**

- A. Voice band modem
- B. DHCP & Scope resolution
- C. Simplex Communication
- D. Stop and Wait Protocol
- E. Authoritative hosts