MGM's College of Engineering and Technology NOIDA
Departments of CS
Subject Name: COMPUTER-NETWORK
Subject Code: RCS601
Assignment 3

Q1. If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet?

Q2- The ip network 200.198.160.0 is using subnet mask 255.255.255.224. Design the subnets.

Q3. Write advantages of Next-generation IPV6 over IPV4.

Q4.Write short notes on -
     (i) SMTP
     (ii)TELNET
     (iii) HTTP

Q5. What is congestion? Briefly describe the techniques that prevent congestion.

Q6 What is time-to-live or packet lifetime?

Q7. What is header and trailers and how do they get added and removed?

Q8. What is count to infinity problem?

Q9 What is unicast Routing? Discuss unicast routing protocols.

Q10 Write three functions can SNMP perform to manage network devices?

Q11- Encode the data-stream 10011010 using the following encoding scheme:
     (i) Unipolar
     (ii) Bipolar NRZ-L
     (iii) Bipolar NRZ-I
     (iv) RZ
     (v) Manchestor
     (vi) Differential Manchestor
     (vii) AMI