Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [11]

M. Com. (Semester – 3rd)
COMPUTER NETWORKS
Subject Code: MECE0-F91
Paper ID: [OE1210120]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(4 marks each)**

Q1. What Internet services are available for a user?

Q2. What is the difference between an Internet Address and the Physical Address? How does the mapping of Internet Addresses to Physical Addresses take place?

Q3. Who manages the Internet?

Q4. Describe the meaning and purpose of firewall?

Section – B **(8 marks each)**

Q5. Explain the TCP/IP layer stack?

Q6. What is the anatomy of an IP packet?

Q7. What is congestion control in a computer network? Which techniques are the used for congestion control?

Q8. What are Intrusion Detection Systems? Explain the different ways in which intrusion can be detected?

Section – C **(10 marks each)**

Q9. With the help of suitable drawings, explain the different internetworking devices?

Q10. What is an IP address? What are the different class in which an IP address may exist?

Q11. Define the following: security, reliability? How is security and reliability of transactions happening on the Internet ensured?