

SVKM'S NMIMS STME, Navi-Mumbai Campus
B.Tech (CSBS) Sem- VI
Mid Term Test-II

Course: Btech (CSBS)

SEM: VI

Subject: Computer Networks

Marks: 20 Marks

Duration: 1 hour

Date of Exam: 8/03/22

Instruction to students:

1. Question 1 is compulsory.
2. Attempt 2 from the remaining questions.
3. Use of electronic gadgets is not allowed.

SET (B)

Q1. Attempt all the questions given below:

8 M

Q1a. Define the two types of errors:

- a) Multiple-bit error. b) Burst-bit error.

Q1b. Define CRC.

Q1c. What are the functions of MAC?

Q1d. Describe in brief CSMA/CD

Q2. Attempt any 2 of the following questions given below:

12 M

Q2a. A bit stream 10100110 is being transmitted using the standard CRC method. The generator polynomial is $x^3 + 1$. Determine whether the data will be accepted or not.

$x^3 + x^2 + 1$

Q2b. Explain sliding window protocol with example.

Q2c. Write short notes on:

- (i) Selective Repeat ARQ using sliding window protocol.
- (ii) CSMA access modes.