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Roll No

EC-501 (GS)
B.E. V Semester Examination, June 2020
Grading System (GS)
Voice and Data Communication
Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Describe the following signalling manages:
 - i) Altering
 - ii) Supervising
 - iii) Controlling
 - iv) Addressing
2. What is the relationship between telecommunications and data communications? Is one a subset of the other? Give reason for your answer.
3. a) What are different Topology? Explain with the help of diagram.
b) Describe about Transmission Media (guided and unguides).
4. Compare local central office telephone exchange and operator assisted local exchanges.
5. What is Crosstalk? What is meant by near-end and far-end crosstalk? Explain.
6. Write and explain the followings in detail
 - a) DTE - DCE interface
 - b) Modems

OR

Compute the CRC-4 character for 1100 0110 101101 using a divisor constant of 10011.

7. Write short notes on:
 - a) CRC
 - b) Shannon capacity
 - c) Message switching
- OR
- a) Explain the basic call procedure in brief.
 - b) Discuss about the channel noise and units of power measurements .
8. Write short notes on any two:
 - a) Interface standards
 - b) Modem
 - c) WDM
 - d) Cordless telephones
