

Sant Gadge Baba Amravati University, Amravati Summer 2020 Exam  
H. V. P. Mandal's College of Engineering & Technology, Amravati  
Course: Computer Science & Engineering  
B.E. Four Year Fifth Semester (Computer Science & Engineering) Summer 2020  
Exam  
5KS01 Data Communication  
ONLY FOR BACKLOG STUDENTS

Marks: 20

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**Note:**

**Solve any Two Questions**

**Each Question carries 10 Marks.**

**Question No.1 (10 Marks)**

- A. Explain point to point and multipoint line configuration? (02Mark)
- B. What is analog to digital encoding? (02Mark)
- C. What are the three major multiplexing techniques? (01Mark)
- D. What are the three main functions of the data link layer? (01Mark)
- E. What is collision? (02Mark)
- F. What is congestion control? (02Mark)

**Question No.2 (10 Marks)**

- A. Identify the five components of a data communication system. (02Mark)
- B. Explain unipolar encoding? (02Mark)
- C. What are the two types of TDM? (01Mark)
- D. What is the purpose of flow control? (02Mark)
- E. What are the three switching methods? (01Mark)
- F. Define DLCI? (02Mark)

**Question No.3 (10 Marks)**

- A. Name the factors that affect the performance of the network. (02Mark)
- B. How does NRZ-L differ from NRZ-I? (02Mark)
- C. What are the four types of redundancy check used in data communications? (02Mark)
- D. Explain Stop and Wait ARQ? (02Mark)
- E. Name the two technologies used in time division switch. (01Mark)
- F. What is CIR? (01Mark)

**Question No.4 (10 Marks)**

- A. Explain topology? (02Mark)
- B. Explain DTE and DCE? (02Mark)
- C. What is VRC? (02Mark)
- D. What are the two main methods for error control? (01Mark)
- E. What are the five types of offices of the PSTN? (02Mark)
- F. What is the definition of bursty data? (01Mark)