

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  
ASSIGNMENT ONLY FOR BACKLOG STUDENTS

Marks: 20

---

**Note:**

**Solve any Two Questions**

**Each Question carries 10 Marks.**

Question No.1 (10 Marks)

- A. What is Data Communication? (02Mark)
- B. What is digital 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. What is DC component? (02Mark)
- C. What are the two types of TDM? (01Mark)
- D. What is the purpose of line discipline? (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. Why is flow control needed? (02Mark)
- E. Name the two technologies used in time division switch. (01Mark)
- F. What is CIR? (01Mark)

Question No.4 (10 Marks)

- A. What are the key elements of a protocols? (02Mark)
- B. What does the modem stand for? (02Mark)
- C. What is the purpose of Hamming code? (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)