

# देवी अहिल्या विश्वविद्यालय, इंदौर से सम्बद्ध

Exam-center: Prof. Brijmohan Mishra Institute of Medical & Technical  
Sciences, burhanpur(mp)

नियमित(Regular) विद्यार्थियों के लिए

**BCA Examination October-(2019-20)(ATKT)**

**Class: BCA-IV SEMESTER**

**Paper- Data & network communication**

**Note: Attempt all the five Questions. All questions carry equal Marks.**

1. Explain the following terms:  
a) Bandwidth b) Data rate c) Baud rate d) Noise
2. What is data communication? Explain modes of data communication?
3. Compare the various network topologies?
4. What do you understand by multiplexing. Explain the various methods of multiplexing?
5. Explain the concept of bit stuffing. If bit string 01111011111100000011111 is bit-stuffed, what will be the output string for HDLC protocol?

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**Paper- DBMS**

**Note: Attempt all the five Questions. All questions carry equal Marks.**

1. List five significant difference between a flat file processing system and a DBMS?
2. What is an ER Diagram? Explain it by suitable example & their symbols?
3. Explain DDL & DML statement with examples of each?
4. What is 3NF? How it is achieved & what are its advantages over 2NF?
5. What are oracle tools? Explain some of the tools?

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**Paper- Digital computer organization**

**Note: Attempt all the five Questions. All questions carry equal Marks.**

1. Explain the functions of each component of computer?
2. Write various types of ROM. Which one is better and why?  
explain.
3. Write down differences between static RAMs and dynamic RAMs?
4. Explain each components of central processing unit?
5. Explain DMA with the help of diagram?

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**Paper- Unix operating system**

**Note: Attempt all the five Questions. All questions carry equal Marks.**

1. What is OS. Explain Different types of Operating system with diagram?
2. What is Unix. Write advantages and disadvantages of unix OS?
3. Write the use of following command:  
[a] cat            [b] dat            [c] cp            [d] mv
4. Explain the backup utility of Unix?
5. Write down shell script for simple interest calculation?