



**ABES Engineering College, Ghaziabad**  
**Department of Computer Science & Engineering-Data Science**

**Session: 2023-24**

**Semester: III**

**Subject Code: BCS-302**

**Subject Name: COA**

**Important Previous Year Questions of Unit-5**

<b>S.NO</b>	<b>Question</b>	<b>Year</b>
<b>1</b>	What is the transfer rate of an eight-track magnetic tape whose speed is 120 inches per second and whose density is 1600 bits per inch?	2021-22
<b>2</b>	Explain destination-initiated transfer using the handshaking method.	2021-22
<b>3</b>	Explain how the computer buses can communicate with memory and I/O. Also, draw the block diagram for CPU-IOP communication.	2021-22
<b>4</b>	What are the different methods of asynchronous data transfer? Explain in detail.	2021-22
<b>5</b>	Draw and explain the block diagram of a typical DMA controller.	2020-21
<b>6</b>	Discuss the different modes of data transfer.	2020-21
<b>7</b>	Write down the difference between isolated I/O and memory-mapped I/O. Also, discuss the advantages and disadvantages of I/O and Memory Mapped I/O.	2019-20
<b>8</b>	Discuss the design of a typical input and output interface. What are interrupts and how they are handled?	2019-20