**UNIT-6 ASSIGNMENT- INPUT OUTPUT ORGANIZATION**

1. Explain the following:

(a) Isolated Vs Memory mapped I/O

(b) I/O Bus Vs Memory Bus

(c) I/O Interface

(d) Peripheral Devices [4+4+4+4]

2. Explain the following:

(a) Asynchronous Serial Transfer

(b) Asynchronous Communication Interface (or) UART

c) Asynchronous data transfer

3 What are the different modes of data transfer or I/O communication techniques?

( OR )

( a ) Explain programmed I/O in detail.

(b) Explain interrupt initiated I/O in detail.

(OR)

What are the different modes of data transfer or I/O communication techniques? Explain each mode in detail.

(OR)

What are the different kinds of I/O communication techniques? Compare and contrast

(OR)

(a) What are the di\_erent types of I/O communication techniques? Give brief

notes.

(b) In the above techniques, which is the most e\_cient? Justify your answer.[7+8]

4 (a) What is daisy chaining? Explain with neat sketch.

(b) What is parallel priority interrupt method? Explain with neat sketch. [8+8]

5 What is polling and explain

6. (a) What is Direct Memory Access? Explain the working of DMA.

(b) What are the different kinds of DMA transfers? Explain.

(c) What are the advantages of using DMA transfers? [8+4+4]

7. (a) Differentiate cycle stealing and Burst transfers of DMA.

( b) Out of all Interrupt handling methods, which is not efficient? Justify your

answer. [8+8]

8. a) Explain the concept of daisy chaining priority.

b) What is DMA explain its working. [8+8]

9. Write short notes on the following:

(a) DMA Controller

(b) I O P

(c) I/O Devices [6+6+4]

10 (a) Explain bit oriented and character oriented protocols in serial communication

(b) What are the different issues behind serial communication? Explain. [8+8]

11 Explain the following:

(a) I O P

(b) IBM 370 I/O Channel

(c) Intel 8089 IOP

12 Explain the following

a)USB

b)IEEE1394

c)RS232