

## **UNITED INTERNATIONAL UNIVERSITY (UIU)**

## Dept. of Computer Science & Engineering

Trimester: Spring 2022

Course No: CSE 4325 Title: Microprocessors and Microcontrollers

Section: C

Time: 15 minutes Marks: 20

Name	ID	

1. An 8086 microprocessor is connected with a RAM and a pendrive both having 8GB in size. The processor wants to fetch data from the pendrive. Now, if the processor sends an address bit which exists in both RAM and pendrive, then **explain** the process of fetching correctly from the pendrive. (5)

- 1. In a Microcontroller, 3 pin heart beat measuring sensor is connected to an 8 pin I/O port. The students want to turn on a LED light when the heart rate is greater than 125 bpm. The LED is connected to another 8 pin I/O port. For programmed I/O, **what** are the command/data direction register values the students should set in both I/O port for the following cases:
  - i) individual control of the I/O pins.
  - ii) parallel control of the I/O pins.
  - iii) If only one 8 pin I/O port is used for the above case, then **what** is the data direction register value? (15)