

TED University
Computer Engineering Department
CMPE 453: Fall 2024 – 25, Quiz (Sample)
Duration: 40 minutes, Total Marks: 100

NAME:

ID:

Section #:

SIGNATURE:

Select the right answer for Question 1:

Q1. Consider the following AVR program written in C. What will be the value of PORTB when $z = 2$? (10 points)

```
#include <avr/io.h>                //standard AVR header

int main(void)                      //the code starts from here
{
    unsigned char myList[] = "012345ABCD";
    unsigned char z;
    DDRB = 0xFF;                    //PORTB is output
    for(z=0; z<10; z++)             //repeat 10 times and increment z
        PORTB = myList[ z];         //send the character to PORTB

    while(1);                       //needed if running on a trainer
    return 0;
}
```

A) 0 B) 2 C) A D) D E) None

Write the answer for Question 2 in the box given below:

Q2: What will be the value (in 8-bit binary) of register DDRD for the execution of the following instruction? (10 points)

DDRB = 1 << 3;

DDRB =	
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