

Microprocessor Systems and Interfacing (CPE342)
Bachelors of Science in Computer Engineering

Quiz No. THREE

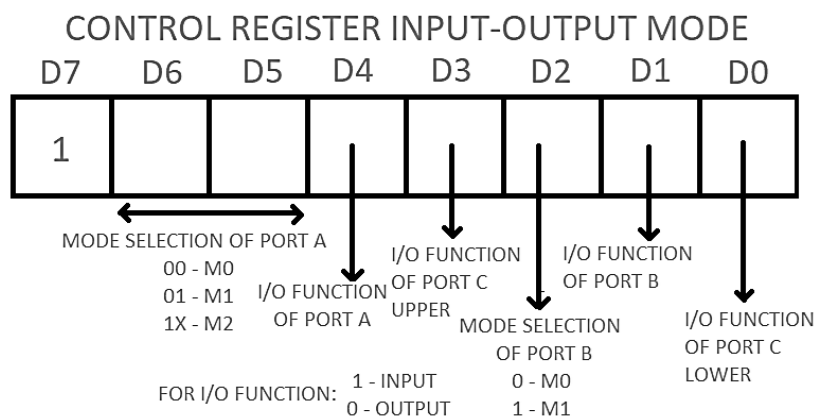
FA22-BCE-B

Name	
Registration No.	
Date	

Total Marks: 10

Time: 15 Minutes

Problem: Consider the code below that reads one byte from Port A and one byte from Port B of 8255 PPI. The code writes the sum of these bytes to Port C of PPI. Referring to the control word register structure, formulate the missing instructions in the space provided such that the code performs the required task. Addresses of PPI are 9800H to 9803H for Port A, Port B, Port C and CW, respectively.



MOV DX, 9803H

OUT DX, AL

MOV DX, 9800H

MOV BL, AL

IN AL, DX

MOV AL, BL

OUT DX, AL

Solution:

```
MOV AL, 10001001B
```

```
MOV DX, 9803H
```

```
OUT DX, AL
```

```
MOV DX, 9800H
```

```
IN AL, DX
```

```
MOV BL, AL
```

```
MOV DX, 9801H
```

```
IN AL, DX
```

```
ADD BL, AL
```

```
MOV AL, BL
```

```
MOV DX, 9802H
```

```
OUT DX, AL
```