

CSE 260 MID

(2010) 20101402

Seet: 11

Answer to the Question no 1(a)

total blue papers = 1110010

$$= 01110010$$

$\underbrace{\hspace{4em}}_7$
 $\underbrace{\hspace{4em}}_2$

$$= (72)_{10}$$

$$= (1001000)_2$$

(a) 8 mit (b) 9 auf 10 Stunden

Used if it = 10000 11 to provide

$$= \underbrace{010000}_{4} \underbrace{11}_{3}$$

$$^2 (43)_{10} = (101011)_2$$

~~W₂'s complement of Used: 00101011~~

1's Complement of used pattern = $13 = 11010100$

$(-43) = 11010101$

$$\therefore \text{Paper left } (72)_{10} = 01001000$$

(-10)_{10}(+) 11000001

1 0 0 0 1 1 1 0 1

$$= (11101)_2 = (29)_{10}$$

∴ there is an overflow (Ans)

Answer to the question 2(b)

$$X = (11011)_2$$

$$= (27)_{10}$$

$$+ 8$$

$$(35)_{10} = (100011)_2$$

Answer to the question 2(b)

Binary of 8 = 1000

$$X = 11011$$

$$+ 1000$$

$$\boxed{100011}$$

$$\therefore X = (00011)_2$$

$$Y = 11111$$

$$+ 1000$$

$$\boxed{100110}$$

$$\therefore Y = (00110)_2$$