Assigment 2

Date:

Mone : fidaullah

Section: BS-C5 1-0

SAP ID: 70179139 Submitted to: lectures SALMAN IRfan

"Number system and computer

Arithmetic"

auestion No 1

11) Hexa decimal to binary,

zin binary = 0010

A in binary = 1010

3 in binary = 00 11

f in binary = 1/11

combine all (2+13f) = (0010100011 1111)

employes in hexadecimal to

binary 11

(00.10101000111111)

50, 185,0 = (271)

Date:	
convert octal (57) & to binary	
5= 101 and 7 = 111	
177) x z (101111) 2	
(Question No 3)	
In an embaded system, data	100
- tal cornect hur must	be be
nexa decima for	etocci
mentoring software - Give the occu	X
Number (125) à la hexaclecimal.	
octal to binary	
7 = 111	
2 = 010	
5 = 101	
$\frac{100}{100000000000000000000000000000000$	
Binary to nexelectional 0111 0101 0101	
011/01010101	
011 = 7	
0101 = 5	
50,	
$(775)_8 = (105)_{10}$	

(Question 1004)

Binary Addition of (101010) and (110011) 101010 + 110011 = 1010101

Binary subtraction (2's complement) of 110011 from 101010; 101010 001101 111111 (11111)

(Question NOS)
Binery multiplication of (1011), x (110),

1000010)

	Date:
(Question 6)	
101	
101 110110	
10110	
0011	
101	
100	
Quotient (101) 22, Remainder	(100)
Que C.	

	D-4
Question No 7)	Date:
Developing en	
Smart Incom	for
igne system	based
sensor A and 13, if senso	r 19
Sends (101011), and sensor 13	sends
(110001) à calculate result	by
subtracting B from A.	
subtract (110001) 2 from (10101	
the 2's complement method	
Ofind the 3's complement o	of 11000]
2's complement 001110	
Add 1: 001118 + 1 = 001111	
6) padd 101011 + 00111)	
1900 1000 111 111 110 110	
101011 + 001111 = 111010	
SO,	
(1010111) = (110001) =	(11100)2

Question No	Date:
1110.400	10
binavu cura om	time in
Hexadecimal.	it into
100 (10011) g for	
(111001) ₂ for	min
$(10011)_{3} = 1x_{3}^{4} + 0x_{3}^{3} + 0$	
= 16+0+0+7	+1
[
(10011) din decimal	z 19 hours
(111001) = 1x 2+1x 2 +1x2.	
= 32+16+8+0.	40+1
= 57	
(111001) in decimal =	57 mint
courrent time in a	ecimal is
19 hours and 57	
(1) (100 11) = 19 hours	8
6 (11001) = 57 m	inutes.
the times is	19:57,
7/10 7/1105	11057)