

Quiz 2	Course Code: IM112	Course name: B	asic Computer (Concepts		
Student ID:	(07/11/0 Name:	注文意	Class:	13		
5		~			65	
	sult of following operation: NO		• • •	-	43	
	nation of logical and shift opera b" (20 points)	tions to extract the	third bit (from th	e right) of the	ne pattern:	
	and-magnitude" to convert a convert a	lecimal integer -S	87 to a hinary i	nteger with	8-bit length	
	nplement" to convert a decimal					
4. Use "binary	calculation" to subtract a va	ariable B from A,	and then prove	the answer	in decimal. A,	
	inary integers with 8-bit lengt					
5. Use "binary calculation" to complete the mathematical operation, A/8 and then prove the final answer in decimal. Where $A = (-60)_{10}$. (20 points)						
2 <u>15 1</u>		, END	U		77	
ANSWER		LND			2 3 11 1	
7140 1(010100	10), OR (01001001)]	000000000	NOTO101	1011	2	
2(40 [(01010010), OR (01001001)] 0R 01010010 NOTO1011011 2(20) [01010010] 0R 01010010 [1010010]						
2(91						
2/40						
2	A: (A4)16 (101001	00)7			21 (2 %) (2 %)	
2 7/7	101-11-1					
2. YZIA IK	n 10/16	11 0 ala				
120,7	20					
A=2 # 19) 2 + 0 y 2 u/m 112 u						
00 Y2 U/m112						
A 999 2.2029 1 ANN						
- E-117 33	ე ა. შ	1600.0.0				
3. 2/871	0/0/0/1					
2 (431	8)=10101001					
	1.1.1.1		•••••			
2/51						
4 2/20	H 121/010	100 1 4		3:21		
	A = 11000011		01110 B=	00010101		
1) 11 17	771191811		100,00	170707		
AKB	10/0/11/0	84+16		- 1010	on the	
A:-82 # -82#						
(/)		- 17	60001060	••••••	••••••	
5. (-60)	2 300	3	8			
Bin=110001	004 2 (51	2				
1/00.	2(1)	11000100	-	20		
	44	11100010	/ /\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	110001100		A:-8#			
1111000						

Quiz 5 Course Code: IM112	Course name: Basic Computer Concepts						
Student ID: /٥٩١/١٥ Name	it文美 Class: B						
Given a list of number data = $[1, 3, 5, 8,$	9, 10, 11, 15, 18, 20, 22]						
Index: {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}							
1. Please fill to pseudo code for the binary search algorithm as below:							
BinarySearch (data, left, right, x)							
if .(left >= right) mid= (left + right)/2 if .data[mid] == X else if	return 0; return 1; . return Binary Search (data, midtl, vight) (data, left, Mid-1)						
	Q1/						
2. Show the results of list data step by ste	ep for Binarysearch (data, 10, 20)						
pass 1 3 5 8 9 10 11	15 /8 20 22 mid=04/0/2						
pass 2 1 3 5 8 9 10 11	1 15 18 20 22 mid=0+4/2 ft mid X right = 2						
2. Show the results of list data step by step pass 1 3 5 8 9 10 11 11 12 12 13 14 15 16 16 16 16 16 16 16	1 15 18 $ z_0 ^2$						