Decimal and marks remarks



BMATH1101/BIE1123/BIE1124 ? MATHS FOR COMPUTING/ BIT1113/BIT1114? DIGITAL DESIGN & FUNDAMENTALS

Department: Faculty of Information &CommunicationTechnologyCourse Name: BSEM/BMC/BICT/BBIT/BIT/BGT

Semester: 01

Commence Date: Week 6

Deadline Date: Week 8

Unit Controller / Examiner: Hossein Babaei

Contact Number: 03-8317 8333 ext 8403

E-mail:

Objective:

To provide student the basic discretemathematicsconcept that has applications in computerscience. To provide student expose in application of binary numbers.

Learning Outcome:

Upon completion of the assignment, student will be able to: Apply binary number system. Apply the principle of mathematical induction.

ANSWER ALL THE QuestionS. [60 marks]

1.

Convert each binary number to its decimal equivalent: a) 111001012

b) 11011. 101012

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[6 marks]

2.

Convert	to	its	binar	У	equivalent	:	
a)	421. 39062510						
b) 231. 6251	0						
[10 marks]							
3.							
Find the	binary	answer	for	the	following	:	
a) (2548 × 5	58) - (11000	1012 + 11	.0101012) - FFA16	= b) 110. (0012 - 11.	
1112							
c) 1	1. 10	012	х	11.	012		
d) 100. 0001	2 ÷ 10. 12						
[10 marks]							
4.							
Find the	following) diffe	rence	using	compleme	ents:	
a)	4563610		-		453910		
b)	111001	.112		-11001	1002		
[6 marks]							
5							
a) Add	673 6248	with	7/10 1	E316 i	n octal	form	
b) Add 2	075. 0240	with 12	740. I	i Ji U I		form	
b) Add 2/			./1. 450) '		ionn.	
C) ENCOC	ie the	decimai	num	ber :	34510 l	ising	
8-4-2-1 BCD code, d) Encode the numbers 25410, -25410 and +25410 to							
EBCDIC							

Decimal and marks remarks - Paper Example

codes using i) Zoned decimal format, ii) Packed decimal format [10 marks]

6.

a) Find the internal representation of 23510 and -53110 if the computer uses a 32-bit memory location to store the number. b) Find the internal representation of real number R = -231.312510 assuming computer uses 32-bits memory location to store the number.

c)) Find the internal representation of real number
R = 378. 714310 assuming computer uses 32-bits memory
location to store the number.

[25 marks]

SuBmission information

Student who submits this assignment later than the deadline date stated above will only get 0. 5%. You must submit the work with an assignment cover page stapled together as submission.

Specific Information The assignment must be hand written with NO cancellation. This assignment is an individual work and it contributes 15% assignment coursework.

marking criteria

The following is the marks deduction for this assignment:

Late submission = 0. 5% is given regardless of errors/mistakes. Not following question requirements = -0. 5% is given as long as student never follow any of the question requirements. Plagiarism = 0% is awarded immediately.

Let others copy your work = 0% is awarded immediately. Off topic work = 0% is awarded immediately.

rules and regulations You to complete this assignment individually. are You NOT allowed to work with other students. are any You write all the must step and the solution. It is reasonable to discuss with others possible general approaches to the given problems. You are NOT allowed to work together to get a detailed solution, to copy a solution, or to give away a solution. If there is too much collaboration from your common discussion by looking at the solutions, in such instances of academic dishonesty may result in you getting zero marks for this piece of assignment. Do NOT let others see your solution.

DoNOTe-mailyoursolutiontoanyone.If someone cheats by using your work, you will be penalized.

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ASSESSMENT BMATH1101/BIE1123/BIE1124 MATHEMATICS FOR COMPUTING BIT1113/BIT1113 DIGITAL DESIGN & FUNDAMENTALS INDIVIDUAL ASSIGNMENT

No

Criteria

Total

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Marks	
Marks	
Remarks	
Question	1
6	
Question	2
10	
Question	3
10	
Question	4
6	
Question	5
10	
Question	6
25	
Format/Punctuality	
8	
Neatness	
5	
Total	
80	
TOTAL MARKS: (/80)	

Decimal and marks remarks – Paper Example				
:	(15%)			
Remarks		:		