Review Test Submission: Quiz 1

User	Matthew McKague
Unit	Discrete Structures
Test	Quiz 1
Started	6/04/17 6:03 PM
Submitted	6/04/17 6:03 PM
Status	Completed
Attempt Score	0 out of 100 points
Time Elapsed	64 hours, 25 minutes
Instructions	This quiz will be available for all of week 3. There is no time limit, and you will have two attempts.
Results Displayed	Correct Answers, Incorrectly Answered Questions

Question 1

0 out of 5 points

Calculate 20 mod 6

Correct Answer: 2

Answer range +/- 0 (2.0 - 2.0)

Question 2

0 out of 5 points

Calculate 14 mod 5

Correct Answer: 4

Answer range +/- 0 (4.0 - 4.0)

Question 3

0 out of 5 points

What is (9 + 6) mod 4?

Correct Answer: 3

Answer range +/- 0 (3.0 - 3.0)

Question 4

0 out of 5 points

What is (6 x 2) mod 4?

Correct Answer: 0

Answer range +/- 0 (0.0 - 0.0)

Question 5

0 out of 5 points

What is 2^4 x 2^6?

Correct Answer: 2^{10}

Question 6

0 out of 5 points

What is 16^5 with base 2?

Correct Answer: 2^{20}

Question 7

0 out of 5 points

What is $\log_2$ 64/4?

Correct Answer: 4

Answer range +/- 0 (4.0 - 4.0)

Question 8

0 out of 5 points

What is $\log_2 4^5$?

Correct Answer: 10

Answer range +/- 0 (10.0 - 10.0)

Question 9

0 out of 5 points

How many different 4-bit strings are there?

Correct Answer: 16

Answer range +/- 0 (16.0 - 16.0)

Question 10

0 out of 5 points

How many kilobits are there if you have 2^{16} bits?

Correct Answer: 64

Answer range +/- 0 (64.0 - 64.0)

Question 11

0 out of 5 points

How many bits are required if you need 24 unique bit strings?

Correct Answer: 5

Answer range +/- 0 (5.0 - 5.0)

Question 12

0 out of 5 points

What is 1100 & 1001?

Correct Answer: 1,000

Answer range +/- 0 (1000.0 - 1000.0)

Question 13

0 out of 5 points

What is 1100 | 1001?

Correct Answer: 1,101

Answer range +/- 0 (1101.0 - 1101.0)

Question 14

0 out of 5 points

What is $1010 \oplus 0110$?

Correct Answer: 1,100

Answer range +/- 0 (1100.0 - 1100.0)

Question 15

0 out of 5 points

What is ~0101?

Correct Answer: 1,010

Answer range +/- 0 (1010.0 - 1010.0)

Question 16

0 out of 5 points

Assume 4-bit strings. You want to turn on bit 3. What mask would you use?

Correct Answer: 1,000

Answer range +/- 0 (1000.0 - 1000.0)

Question 17

0 out of 5 points

Which formula would you use to turn on bit 2 of 4-bit string x?

Correct Answer: $x \mid (1 << 2)$

Question 18

0 out of 5 points

Which forumla would you use to turn off bit 1 in x?

Correct Answer: x & 1101

Question 19

0 out of 5 points

Which of these is the correct mask for bits 1 and 3?

Correct Answer: (1 << 3) | (1 << 1)

Question 20

0 out of 5 points

Which formula would you use to flip bit 0 of x?

Correct Answer: $x \oplus 0001$

Sunday, 9 April 2017 10:29:16 AM AEST

← OK