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Discrete Structures CAB203_17se1

Assessment Review Test Submission: Quiz 2

Review Test Submission: Quiz 2

Instructions	You can take the test twice. The higher score will be recorded.
	0 minute
Attempt Score	0 out of 100 points
Status	Completed
Submitted	9/04/17 10:27 AM
Started	9/04/17 10:27 AM
Test	Quiz 2
Unit	Discrete Structures
User	Matthew McKague

Question 1 0 out of 5 points



USASCII code chart

)					_	0_	0	0	0		1	,	
7 b 6 b	5 -					°° o	°0,	٥	١,	်စ	.0	' '0	, ₁
B	D 4+	b 3	p 5	b i	Row	0	1	2	3	4	5	6	7
	0	0	0	0	0	NUL .	DLE	SP	0	0	Р	```	P
	0	0	0	1		SOH	DC1	!	1	Α.	Q	0	q
	0	0	1	0	2	STX	DC2	"	2	В	R	. b	r
	0	0	1		3	ETX	DC3	#	3	C	S	С	S
	0	1	0	0	4	EOT	DC4	\$	4	D	T	đ	1
	0		0	I	5	ENQ	NAK	%	5	Ε	U	е	υ
	0	1	1	0	6	ACK	SYN	8.	6	F	>	f	٧
	0		1	1	7	8EL	ETB	•	7	G	*	g	w
	П	0	0	0	8	BS	CAN	(8	н	×	h	×
	T	0	0	1	9	нТ	EM)	9	1	Υ	i	у
	T	0	1	0	10	LF	SUB	*	:	J	Z	j	Z
	1	0	T	T	11	VT	ESC	+	;	K	C	k,	(
	ī	1	0	0	12	FF	FS	•	<	L	\	l	1
	1	1	0	1	13	CR	GS	-	=	М)	m	}
	1	ı	1	0	14	so	RS		>	N	^	n	>
				1	15	SI	US	1	?	0		0	DEL

Using the ASCII table above, what is the 7-bit string for N?

Correct Answer: **(3)** 1,001,110

Answer range ±/ 0/1001110 0 1001110 0)

Question 2 0 out of 5 points



Using the table from question 1, what is the ASCII character for the bit string 0110010? (If 🔀 you see the message "Valid numeric value required(Answer will still save, but will be marked incorrect" then you may want to try a different answer.)

Correct Answer: 🚫 2

Answer range +/-0 (2.0 - 2.0)

Question 3 0 out of 5 points



Using the ASCII table for question 1, what is the 7-bit string for the character }?

Correct Answer: 🚫 1,111,101

Answer range +/- 0 (1111101.0 - 1111101.0)

Question 4 0 out of 5 points



Put the following bit strings into lexigraphical order.

Correct Answer

- **o** 1. 001
- on 2. 0011001
- **3**. 1010
- **4**. 11001
- _{☉ 5}. 1101000

Question 5 0 out of 5 points



A C-style string is encoded by

Correct



Answer:

Recording the text in ASCII and append a NULL character (00000000) to indicate the end of the string.

Question 6 0 out of 5 points



Convert the binary number 1100 to base 10

Correct Answer: 🥎 12



Question 7 0 out of 5 points

Convert the binary number 11011 to base-10.

Correct Answer: 🚫 27

Answer range +/- 0 (27.0 - 27.0)

Question 8 0 out of 5 points

What is 1100 + 1001? Give your answer in binary.

Correct Answer: 🚫 10,101

Answer range +/- 0 (10101.0 - 10101.0)

Question 9 0 out of 5 points



What is 11111 + 11? Give your answer in binary.

Correct Answer: 🚫 100,010

Answer range +/- 0 (100010.0 - 100010.0)

Question 10 0 out of 5 points



Convert 11101110 to hexidecimal

Correct Answer:

Evaluation Method Correct Answer Case Sensitivity

🧭 Exact Match EE

Question 11 0 out of 5 points

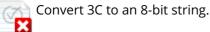
Convert 01011101 to hexidecimal.

Correct Answer:

Evaluation Method Case Sensitivity Correct Answer

5D Exact Match

Question 12 0 out of 5 points



Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	00111100	

Question 13 0 out of 5 points



Convert F4 to an 8-bit string.

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	11110100	

Question 14 0 out of 5 points



Assuming 4-bit 2's complement encoding, decode the string 1011 as a base-10 number.

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	-5	

Question 15 0 out of 5 points



Assuming 4-bit 2's complement encoding, decode the string 0111 as a base-10 number.

Correct Answer:

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	7	

Question 16 0 out of 5 points



In 2's complement encoding, we can determine whether the number is negative or positive by looking at:

Correct Answer: 👩 The leftmost bit

Question 17 0 out of 5 points



2's complement n-bit encoding is derived from

Correct Answer: $_{\bigcirc}$ Arithmetic modulo 2^n

Question 18 0 out of 5 points



Identify the different parts of this number:

 6.022×10^{23}

Question Correct Match

- 6.022
- 🔼 A. Significant digits
- 10
- o B. Base
- +
- O. Sign
- 23
- 🕜 C. Exponent

Question 19 0 out of 5 points



ldentify the different parts of this number:

 -1.01101×2^{1101}

Question Correct Match

- 1.01101
- C. Significant digits
- 2
- O. Base
- -
- 👩 A. Sign
- 1101
- B. Exponent

Question 20 0 out of 5 points



When encoding numbers in floating point on a computer we

Correct



Answer:

Start with the number in base-2 scientific notation, and encode the sign, exponent, and significant digits as bits.

Sunday, 9 April 2017 10:27:34 AM AEST

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