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Discrete Structures CAB203_17se1

Assessment

Review Test Submission: Quiz 3

Review Test Submission: Quiz 3

User	Matthew McKague
Unit	Discrete Structures
Test	Quiz 3
Started	9/04/17 10:24 AM
	9/04/17 10:24 AM
Status	Completed
Attempt Score	0 out of 100 points
Time Elapsed	0 minute
Instructions	You will have two attempts for the quiz. The higher mark will count towards your final grade.
Results Displayed	Correct Answers, Incorrectly Answered Questions

Question 1 0 out of 5 points



$$1.5 \in \{x: 2x \in \mathbb{Z}\}$$

Correct Answer: 🚫 True

Question 2

0 out of 5 points



$$8\in\{2x:x=3y,y\in\mathbb{N}\}$$

Correct Answer: 🚫 False

Question 3

0 out of 5 points



$$\{1,6,3\}\subset\{1,2,5,6\}$$

Correct Answer: 👩 False

Question 4

0 out of 5 points



$$\{1,2,6\}\subseteq\{x:x\geq 1,x\leq 7,x\in\mathbb{Z}\}$$

Correct Answer: 🚫 True

Question 5

0 out of 5 points



$$\{2x:x\in\mathbb{Z}\}\subset\{y:2y\in\mathbb{Z}\}$$

Correct Answer: 🚫 True

Question 6

0 out of 5 points



The set $\{1,2,3\}$ is:

Correct Answer:

$$\{1,2,3,4,5\}\cap\{3,7,8,2,1\}$$

Question 7

0 out of 5 points



$$\{1,3,6,7\} \cup \{6,2,3,7\}$$
 is:

Correct Answer:

$$\{1, 2, 3, 6, 7\}$$

Question 8

0 out of 5 points



$$\{x:2x\in\mathbb{N}\}$$
 is:

Correct Answer:

$$\{0.5, 1, 1.5, 2, 2.5, 3, \ldots\}$$

Question 9

0 out of 5 points



With universe $U=\mathbb{N}$, the set $\{x:x^2=2\}$ is:

Correct Answer:

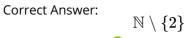


Question 10

0 out of 5 points



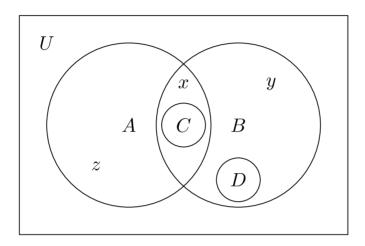
With universe $U=\mathbb{N}$, the set $\overline{\{x:x^2=4\}}$ is:



Question 11 0 out of 5 points



The following Venn diagram applies for the next 6 questions.



 $C \subseteq A \setminus B$

Correct Answer: 📀 False

Question 12

0 out of 5 points



 $y\in \overline{\overline{A}}$

Correct Answer: 👩 True

Question 13

0 out of 5 points



 $D\subseteq B\setminus A$

Correct Answer: 🤡 True

Question 14

0 out of 5 points



 $z\in A\cap B$

Correct Answer: 🚫 False

Question 15

0 out of 5 points



 $y \subseteq A \cup B$

Correct Answer: 🚫 False



Question 16

0 out of 5 points



 $x\in\overline{A\cap B}$

Correct Answer: 🚫 False

Question 17

0 out of 5 points



 $C\subseteq A\cap B$

Correct Answer: 🚫 True

Question 18

0 out of 5 points



Consider the following syllogism:

All cats are mammals

Cats have live young

Some mammals have live young

Choose the correct syllogism type for this syllogism, and whether or not it is valid.

Correct Answer:

$$A\subseteq B\,\mathrm{and}\, A
eq\emptyset$$

$$A \subseteq C$$

$$B\cap C
eq \emptyset$$

Valid



Question 19 0 out of 5 points



Consider the following syllogism:

All canines are mammals

My cat is a mammal

My cat is a canine

Choose the correct syllogism type for this syllogism, and whether or not it is valid.

Correct Answer:

$$A \subseteq B$$
 $x \in B$
 $x \in A$

Not valid



Question 20 0 out of 5 points



Consider the following syllogism

All grasses are plants

Pine trees are grasses

Some plants are pine trees

Which of the following statements about the syllogism is true?

Correct



Answer:

The syllogism has a valid type and a false premise, but the conclusion is

true.

Sunday, 9 April 2017 10:25:40 AM AEST

 \leftarrow OK

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