

[Dashboard](#)[My courses](#)[CCS213-18](#)[Midterm Period:](#)[Midterm Examination](#)**Started on** Monday, 10 October 2022, 10:02 AM**State** Finished**Completed on** Monday, 10 October 2022, 10:55 AM**Time taken** 53 mins 14 secs**Grade** 20.00 out of 30.00 (67%)

Question 1

Correct

Mark 2.00 out of 2.00

 $y^2 = 4x$ is a single valued function.

Select one:

☐ True☒ False ✓

The correct answer is 'False'.

Question 2

Correct

Mark 2.00 out of 2.00

'I will pass the Midterm Exam or I will fail it" is an exclusive disjunction.

Select one:

☒ True ✓☐ False

The correct answer is 'True'.

Question 3

Correct

Mark 2.00 out of 2.00

The set of [counting](#) numbers and the set of positive integers are two equal sets.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 4

Correct

Mark 2.00 out of 2.00

2 is congruent to 6 in modulo 4.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5

Incorrect

Mark 0.00 out of 2.00

$\gcd(21, 44)$ indicates that 21 and 44 are relatively prime to one another.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question 6

Incorrect

Mark 0.00 out of 2.00

' $p \leftrightarrow q$ is true when and only when p and q have the same truth value' is conditional.

Select one:

☒ True ✖☐ False

The correct answer is 'False'.

Question 7

Correct

Mark 2.00 out of 2.00

If sets A, B and C are non-empty sets, then $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.

Select one:

☒ True ✔☐ False

The correct answer is 'True'.

Question 8

Correct

Mark 2.00 out of 2.00

$\neg (p \wedge q) \equiv \neg p \vee \neg q$ in De Morgan's Law.

Select one:

☒ True ✔☐ False

The correct answer is 'True'.

Question 9

Correct

Mark 2.00 out of 2.00

The conjunction $p \wedge q$ is true when p and q are both true, otherwise the conjunction is false.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 10

Incorrect

Mark 0.00 out of 2.00

' $p \rightarrow q$ is false only when p is true and q is false, otherwise it is true'.

Select one:

- ☐ True
- ☒ False ✗

The correct answer is 'True'.

Question 11

Correct

Mark 2.00 out of 2.00

325 is equivalent to 101000101_2

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 12

Correct

Mark 2.00 out of 2.00

 $\gcd(17, 55)$ is 55

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 13

Correct

Mark 2.00 out of 2.00

If $A = \begin{bmatrix} 2 & 1 & 3 \end{bmatrix}$ then $A^t = \begin{bmatrix} 3 & 1 & 2 \end{bmatrix}$.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 14

Incorrect

Mark 0.00 out of 2.00

To solve a congruence equation, we need to find only one value of the variable x that satisfies the congruence.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question 15

Incorrect

Mark 0.00 out of 2.00

The proposition, 'either Tony or Raquel is absent, and today is an examination day', is a disjunction.

Select one:

☐ True☒ False ✖

The correct answer is 'True'.

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