

SF Quiz #5: Test 2

Due No due date

Points 26

Questions 7

Available after Nov 23 at 3:30pm

Time Limit 30 Minutes

Instructions

Answer the quiz according to what is needed, this quiz is composed of multiple choice with multiple answers, fill in the blanks and Essay question. Take note that the quiz is time limited so make the most of your time, you cannot return to the previous questions, therefore make sure of your answers. If you cannot submit the quiz on time, the system will automatically submit your scores. Good luck!!!

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	20 out of 26

❗ Correct answers are hidden.

Score for this quiz: **20** out of 26

Submitted Nov 23 at 3:53pm

This attempt took 12 minutes.

Incorrect

Question 1

0 / 2 pts

Write the formula of the euler's function:

totient = ?

Answer in lowercase only. No shortcuts, No abbreviation, No acronyms

phi(n)

Question 2**2 / 2 pts**

Find the N value in the formula $c = m^e \bmod N$, if $p = 389$; $q = 719$.

answer in plain numbers, no commas

Partial**Question 3****8 / 10 pts**

Find the totient or ϕN .

$p=283$; $q=101$; _____

$p=22$; $q=313$; _____

$p=917$; $q=179$; _____

$p=907$; $q=881$; _____

$p=241$; $q=887$; _____

answer in plain number no commas

Answer 1:

28200

Answer 2:

6552

Answer 3:

163048

Answer 4:

797280

Answer 5:

212640

Partial

Question 4

1 / 3 pts

Using the steps in RSA algorithm, find the possible number for **e** or the encryption key.

if $p = 2$; $q = 13$

☐ 19

☒ 11

☒ 5

☒ 7

☐ 13

☐ 9

☐ 15

☐ 3

Question 5

2 / 2 pts

Using the steps in RSA algorithm, find the possible number for **e** or the encryption key.

if $p = 2$; $q = 13$; $e = 11$

☐ 7

☒ 11

☐ 37

☐ 41

☐ 23

Question 6

2 / 2 pts

Find the co-primes of the result and given numbers, if $p = 3$ and $q = 7$

1. what is the $\phi(N) = [a]$ _____

12

Question 7

5 / 5 pts

Find the co-primes of the result and given numbers, if $p = 3$ and $q = 7$

1. What are the co-primes?

☐ 12

☐ 3

☐ 18

☐ 7

☒ 10

☒ 17

☐ 6

☒ 20

☒ 13

☒ 19

☐ 15

☐ 9

Quiz Score: **20** out of 26