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QClass 24/25 QKD Quiz 1

Due Dec 23 at 3:59am   **Points** 10   **Questions** 10
Available Dec 1 at 1am - Dec 23 at 3:59am 22 days
Time Limit 60 Minutes   **Allowed Attempts** 2

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	20 minutes	5 out of 10

⚠ Answers will be shown after your last attempt

Score for this attempt: **5** out of 10
Submitted Dec 15 at 8:44pm
This attempt took 20 minutes.

Question 1	1 / 1 pts

In python, which operation is the following: a ^ b

○ Bitwise AND

○ Bitwise NOT

○ Bitwise OR

◉ Bitwise XOR

Incorrect | Question 2 | 0 / 1 pts |
|---|---|

Which python operator is used for **integer** division?

◉ /

○ ÷

○ %

○ //

Incorrect | Question 3 | 0 / 1 pts |
|---|---|

Solve: (75+37) mod 6

○ 0

Last Attempt Details:

Time:	20 minutes
Current Score:	5 out of 10
Kept Score:	5 out of 10

1 More Attempt available

Take the Quiz Again

(Will keep the highest of all your scores)

○ 4

○ 18

⦿ 6

Question 4

0 / 1 pts

Performing bitwise operations, calculate: $10110 \oplus 01100$

○ 01100

⦿ 01010

○ 11010

○ 10110

Question 5

1 / 1 pts

In python, which operation is the following: $a \mid b$

○ Bitwise NOT

○ Bitwise XOR

○ Bitwise AND

⦿ Bitwise OR

Question 6

1 / 1 pts

In python, how do we encrypt a binary message?

○ message ** key

○ message | key

○ message & key

⦿ message ^ key

Question 7

1 / 1 pts

In RSA, for two prime numbers, **61** and **67**, what's the value of $(n, \ \phi \, (n))$

⦿ $(4087, \ 3960)$

○ $(3960, \ 4087)$

○ (67, 61)

○ (61, 67)

Question 8 0 / 1 pts

For RSA encryption, let **p = 31** and **q = 37** be two prime numbers with public key $P = (e, n)$ and private key $S = (d, n)$. Let **k = 3** and **e = 7**. What will be the encrypted message for "HI" (equivalently, 89)?

Note: The encrypted message will be a number. You have to enter the exact number.

493

Question 9 1 / 1 pts

Which algorithm is a threat to RSA encryption?

◉ Shor's algorithm

○ Deutsch–Jozsa algorithm

○ Bernstein–Vazirani algorithm

○ Simon's algorithm

Question 10 0 / 1 pts

Which of the following is correct?

○ $Z|0\rangle \rightarrow |1\rangle$

○ $Z|1\rangle \rightarrow |0\rangle$

○ $Z|-\rangle \rightarrow |+\rangle$

◉ $Z|+\rangle \rightarrow -|-\rangle$

Quiz Score: **5** out of 10

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