

Date: dd/mm/yy (Day) – [# th] Sem/Sec: [A~G] CSE-431 :: Cryptography and Network Security

Course Teacher: Md. Arshad Wasif (Lecturer, CSE, VU)

	Class Test #01 (Before Mid)			
	Student's Name:		Student's ID:	
	Topics: Number Theory, Symmetric Cryptography (Before Playfair Cipher)		Obtained Marks:	Total Marks: 15
			Marks:	Marks:

[You must answer in the question sheet. No extra paper will be provided. You may write down your answers using black/blue ballpoint pen or 2B pencils. You may bring non-programmable calculators with you. Approximate time for the test will be 25 minutes max.]

Topics and points to look into:

- Definition of cryptography and why we need it.
- Symmetric, Asymmetric Cryptographic model and comparison table with figures
- What is mathematical field, give 2 examples of mathematical fields.
- Which of the following sets are fields and which are not.
- Which of the following integer numbers are divisible by 3 or 5 or 6 or 9.
- Find out primes in the following range using Eratosthenes Algorithm.
- What is algebraic closure and why does every field has an algebraic closure?
- Factorize the following numbers in prime power format.
- Find the GCD of the 2 following numbers.
- How does symmetric cryptography work? Explain it with appropriate diagrams.