

### Class Test –Cryptography

Time: 12:40 AM to 01:20 AM (40 Min)

MAX Mark: 10

Note 1: Both CSE/IT Students need to send PDF of scanned answer-sheet to [cse0016@iiitbhopal.ac.in](mailto:cse0016@iiitbhopal.ac.in)  
maximum up to 01:25 PM

Note 2: Save your [answer sheet with name](#) using your scholar number.

Q.1 What you mean by security in computer. Explain differences between confidentiality and integrity.

Q.2 A small private club has only 100 members. Answer the following questions.

- a. How many secret keys are needed if all members of club need to send secret message to each other?
- b. How many keys are needed if every member sends message to president and then president send it to receiver member?

Q.3 Encrypt and decrypt the message "Life is full of surprises." using either Affine cipher with key = (15, 20).

Q.4 Use a Hill cipher to encrypt and decrypt the cipher text. Where Key is =  
And the message "we live in an insecure world".

A	L	P
H	A	B
E	T	A

## Answer Sheet – Cryptography

Scholar No.

Branch and SEM

Student Name & Sign

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