

**M. SC. (COMPUTER SCIENCE) SEM – II (CHOICE BASED
CREDIT & GRADE SYSTEM) : WINTER - 2017**

SUBJECT : NETWORK SECURITY

Day : Wednesday
Date : 25/10/2017

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

W-2017-0823

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 What is cryptography? Explain secret key cryptography and public key cryptography. [15]

OR

What is Authentication System? Explain password based and address based authentication systems.

Q.2 A) Answer **ANY ONE** of the following: [08]
i) Explain how to encrypt a large message.
ii) Explain RSA algorithm with example.

B) Answer **ANY ONE** of the following: [07]
i) What is a protocol? Explain IP, UDP and TCP.
ii) Explain basic structure of International Data Encryption Algorithm.

Q.3 Answer **ANY THREE** of the following: [15]
a) Explain active and passive attacks.
b) Explain how are MAC's generated.
c) How are distribution lists maintained in email system?
d) Explain types of firewall.
e) Explain security handshake pitfalls.

Q.4 Write short notes on **ANY THREE** of the following: [15]
a) Pretty and Good Privacy
b) Security System
c) DSS
d) Message Digest
e) Active and Passive Attacks

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