Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS / M.TECH (CSE) / SEM-3 / MCSE-302 / 2010-11

2010-11

NETWORK SECURITY

Time Allotted : 3 Hours   *Full Marks* : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words
as far as practicable.

Answer any five questions.

1. Explain different types of Security attacks with examples. What are the different types of network security services ?

    10 + 4

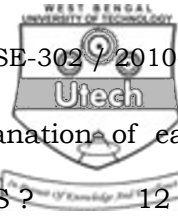2. Explain RSA algorithm with proof. What are the different attacks are possible in RSA cryptosystem ?   8 + 6

3. What are differences between RSA and Robin Cryptosystem ? What are the applications of RSA and Robin Cryptosystem ?

    7 + 7

40126   [Turn over]

4. Describe DES algorithm with proper explanation of each round and key generation. What is Triple DES ? 12 + 2

5. What are the differences between AES and DES ? Explain different Entity authentication mechanism. 8 + 6

6. What is message authentication ? What are the differences between MD5 SHA1 algorithms ? 2 + 12

7. Explain different mechanism of IP security and transport layer security. 7 + 7

============