

B.TECH SEM – VII (2007 COURSE) (COMPUTER ENGG.) :

SUMMER - 2018

SUBJECT: NETWORK SECURITY

Day: **Thursday**
Date: **24/05/2018**

S-2018-2770

Time: **02.30 PM TO 05.30 PM**
Max Marks: **80**

N.B:

- 1) Attempt **ANY THREE** questions from each section including **Q.No.1** and **Q.No.5** which are **COMPULSORY**.
- 2) Answer to both sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.
- 4) Assume suitable data, if **NECESSARY**.
- 5) Draw a neat diagram **WHENEVER** necessary.

SECTION-I

- Q.1** a) Explain Physical and Logical access control. **(05)**
b) Explain Blowfish algorithm in detail. **(05)**
c) Describe Light Directory Access Protocol (LDAP) in detail. **(04)**
- Q.2** a) Explain Denial of Service & Non-repudiation. **(07)**
b) What is Need of Security? Explain various Principles of Security. **(06)**
- Q.3** a) What are different Substitution Techniques. **(07)**
b) Differentiate between RC4 and RC5 algorithm. **(06)**
- Q.4** a) What is Station-to-Station protocol (STS)? Explain in detail. **(07)**
b) Explain Public Key Infrastructure (PKI) components. **(06)**

SECTION-II

- Q.5** a) Explain Secure Electronic Transaction (SET) Protocol in detail. **(05)**
b) What is ARP hazard? Explain it in brief. **(05)**
c) Explain the working of De-Militarized zone (DMZ) networks. **(04)**
- Q.6** a) Explain Privacy Enhanced Mail (PEM) in detail. **(07)**
b) Explain the Secure HTTP in detail. **(06)**
- Q.7** a) Draw and Explain IPV4 protocol. Explain all the fields of IPV4. **(07)**
b) Explain the working of (Simple Network Management Protocol)
SNMP in detail. **(06)**
- Q.8** a) Define Intrusion Detection System. What are the different types of Intrusion
Detection Systems? Explain any one. **(07)**
b) Define Firewall. Explain its configuration and implementation in detail. **(06)**

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