B.TECH. SEM -VII (COMPUTER) 2014 COURSE (CBCS) :
SUMMER - 2018
SUBJECT: NETWORK SECURITY AND CRYPTOGRAPHY

Day : **Tuesday** Time: **02.30 PM TO 05.30 PM**
Date : **22/05/2018** **S-2018-2482** Max Marks: 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to right indicate **FULL** marks.
3) Assume suitable data, if necessary.

Q.1 **a)** Write the detail note on Cyber Laws. **(05)**
b) Differentiate between Authentication and Authorization. What is Physical and Logical Access control. **(05)**

OR

Q.1 **a)** Explain in detail Privacy and Data Protection. **(05)**
b) List and Explain different types of attacks in detail. **(05)**

Q.2 **a)** Explain the use and importance of Advanced Encryption Standard Algorithm. **(05)**
b) Describe the concept of S-Box Theory used in DES. **(05)**

OR

Q.2 **a)** Explain the Steps of RSA Algorithm in Detail. **(05)**
b) What is Plain text and Cipher text. Explain in detail the Substitution techniques **(05)**

Q.3 **a)** Explain DOS and DDOS attack in detail. **(05)**
b) Describe Deffie Hellman key exchange protocol. **(05)**

OR

Q.3 **a)** Explain How Digital Certificates Plays Important role in Providing Network Security. **(05)**
b) Explain hash Function in detail with example. **(05)**

Q.4 **a)** Explain in detail Security in GSM and 3G. **(05)**
b) Draw and Explain Secure Socket Layer Protocol. **(05)**

OR

Q.4 **a)** Write a note on Time Stamping Protocol. **(05)**
b) What is KERBEROS? Distinguish between KERBEROS and SSL Authentication. **(05)**

Q.5 **a)** Draw and Explain IPV6. **(05)**
b) Describe the process of Data Compression using ZIP **(05)**

OR

Q.5 **a)** What is Encapsulating Security Payloads? Explain it in detail. **(05)**
b) Draw and Explain TCP/IP Protocol suite. **(05)**

Q.6 **a)** State different types of firewalls with their services and limitations. **(05)**
b) Define and Explain Network Address Translation. **(05)**

OR

Q.6 **a)** Draw and Explain Architecture of Distributed intrusion detection. **(05)**
b) Explain Honeypots in detail. **(05)**

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