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DOON UNIVERSITY, DEHRADUN**End Semester Examination, December-2016****Course: STM-521 [Information Security and Cyber Laws]
Semester-III****Time Allowed: 3Hours****Maximum Marks: 50**

**Note: Question paper is divided into three sections A, B & C. Marks distribution is given alongside.
Follow the instruction as given in each section.**

SECTION: A**Que-1 Attempt all of the following.****[Marks: 6*1=06]**

- Find GCD(21,300) using Euclid's Algorithms.
- Find $3^{21} \text{ mod } 11$ using Fermat's theorem.
- Differentiate between Spyware and Virus.
- What are the two approaches of digital signatures?
- What protocols comprise SSL?
- India's Cyber Law is covered under IT Act _____ and its amendment _____.

Que-2 Write short notes on . [Marks: 2*2=4]

- Firewalls
- Viruses

SECTION: B**Attempt all of the following. [Marks: 4*5=20]****Que-3** What do you understand by Intruders. Discuss about various Intrusion Detection Techniques.**Que-4** Explain about PKI.

OR

Discuss about Diffie-Hellman Key exchange algorithm with one suitable example.

Que-5 What do you mean by PGP. Explain in detail.

OR

Describe about IPsec.

Que-6 Discuss about SSL/TLS.

SECTION: C

Attempt all of the following. [Marks :4*5=20]

Que-7 Explain about RSA with one suitable example.

Que-8 Explain about Secure Hash Algorithm (SHA) or MD5 in detail.

Que-9 Explain about X.509 authentication service in detail.

OR

Explain about S/MIME in detail.

Que-10 Explain DSS (Digital Signature Standard)

