

**Term End Examination - June, 2017**  
**Diploma in Cyber Security**  
**DCS-02: NETWORKING FUNDAMENTALS (2015 Syllabus)**

**Time - 3 Hours**

**Full Mark - 100**

*(Answer any four questions from Group - 'A', any two questions from Group - 'B' and any three questions from Group - 'C')*

**Group 'A'**

Mark: 5 X 4= 20

*(Answer any four questions each within 100 words)*

Q. No. 1

- a) Define a computer networking and advantages of it.
- b) Name and explain possible attacks on Integrity and availability.
- c) Differentiate between threat and attack.
- d) What is Virus? How does it harm a computer?
- e) What do you mean by Information Security?
- f) Write the applications of Steganography.
- g) What are the E-Commerce Security Applications?

**Group 'B'**

Mark: 10 X 2= 20

*(Answer any two questions each within 250 words)*

Q. No. 2

- a) Discuss different types of threats and vulnerabilities in the area of Information Security.
- b) Discuss the features and scope of different categories of Networks: LAN, MAN and WAN.
- c) What is digital signature? Why digital signature is important?
- d) Write the steps for the password cracking techniques.
- e) What is an antivirus? Explain about different types of antivirus.

**Group 'C'**

Mark: 20 X 3= 60

*(Answer any three questions each within 500 words)*

Q. No.3. Compare the merits and demerits of Guided and Unguided transmission Media.

4. Write the features, advantages and disadvantages of Bus and Star network topology.
5. Discuss the functions of different hardware components of computer networks.
6. Explain about PKI. What are the key reasons to deploy Public Key Infrastructure in a company?
7. Write short notes on E-Commerce security. What are different threats to E-Commerce security?
8. Discuss different types of acts of Cyber-crime and Cyber terrorism in the Cyber Space.