

Term End Examination - December, 2016

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 network. What are the advantages of it?
- b) Write a brief note on Digital Signature.
- c) Name and explain the security attacks on Integrity.
- d) State and explain the meaning of public key infrastructure (PKI).
- e) What is the difference between a worm and a virus?
- f) Write the applications of cryptography.
- g) Define Steganography. What are its applications?

Group 'B'

Mark: 10 X 2= 20

(Answer any two questions each within 250 words)

Q. No. 2

- a) What is a LAN? What is its basic purpose of a LAN? Mention the features and advantages of setting up a LAN.
- b) List the basic types of network topologies? Write the features, advantages and disadvantages of Star topology.
- c) Explain the top ten password cracking techniques.
- d) State and explain the three goals of information security: Confidentiality, Integrity and Availability?
- e) Write short notes on e-commerce security.

Group 'C'

Mark: 20 X 3= 60

(Answer any three questions each within 500 words)

- Q.No. 3. Discuss the functions of different hardware components of computer networks.
4. Compare the merits and demerits of Guided and Unguided transmission Media.
5. Discuss different types of acts of Cyber-crime and Cyber terrorism in the Cyber Space.
6. Discuss different types of attacks in Cyber Space.
7. What is an Antivirus? Name any two popular Antiviruses. Explain the basic functions of antivirus software.
8. Discuss common threats and vulnerabilities in context of Cyber Security.