

Term End Examination - June, 2017
Diploma in Cyber Security
DCS-03: NETWORKING ADVANCED (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'

[5 × 4= 20]

(Answer any four questions each within 100 words)

Q. No. 1

- a) What way encryption techniques help to network security?
- b) Define the terms Identification and Authorisation.
- c) Differentiate between symmetric and asymmetric key cryptography.
- d) What do you mean by encipher and decipher.
- e) Define the term attack with suitable example.
- f) Write short notes on Data Encryption standard (DES).
- g) What do you mean by digital signature write with an example.

Group 'B'

[10 × 2= 20]

(Answer any two questions each within 250 words)

Q. No. 2

- a) Define Cryptography and explain the objectives of cryptography.
- b) Explain the goals of security.
- c) Distinguish between structured threats and unstructured threats.
- d) Explain the properties of digital signature in cryptography.
- e) Explain transposition technique with example.

Group 'C'

[20 × 3= 60]

(Answer any three questions each within 500 words)

Q.No.3 What do you mean by stream cipher? Explain advantages and disadvantages of stream cipher.

Q.No.4. Discuss the use of Triple data encryption standard and advanced encryption standard.

Q.No.5. What is an attack? Explain different types of attacks.

Q.No.6. What is a firewall? Explain different types of firewalls.

Q.No.7. Discuss how intrusion prevention systems helpful in network security.

Q.No.8. Define Intrusion Detection System. How it is different from Intrusion Prevention Systems.