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Term End Examination - December, 2016

Diploma in Cyber Security

DCS-05: SYSTEM APPLICATION SECURITY (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'

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

Mark: 5 × 4=20

Q.No.-1

- What is an OS? What are the requirements of secure OS?
- Differentiate between active and passive security attacks.
- Explain the terms Encryption and Decryption.
- Define E-mail. What do you mean by email spamming?
- How can you identify that a website is secured?
- Define database. Why database security is essential?
- Why Anti-virus software is essential for the computer system?

Group 'B'

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

Mark: 10 × 2=20

Q.No.-2

- Name and explain the five categories of security services enforced to ensure information security.
- What is antivirus software? What are the functions of antivirus software?
- Discuss the methods that you will adopt for configuring OS for security
- What are the security problems with WEP? Explain in brief.
- Name different Cryptographic techniques? What are their applications?

Group 'C'

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

Mark: 20 × 3=60

Q. No.-3

Discuss the architecture of Network Security Model for transmission of secured information over the network.

Q.No.-4

Discuss the role of PGP and MIME in E-Mail security.

Q.No.-5

Illustrate the ways of securing a Personal Computer (Desktop/Laptop) in a network computing environment.

Q.No.-6

Discuss the types of wireless security WEP and WPA in detail.

Q.No.-7

Discuss various authentication methods used in web applications.

Q.No.-8

What are different wireless networks? Explain the use of the different components in wireless networks?