

**Term End Examination - June, 2018**  
**Diploma/Post Graduate Diploma in Cyber Security**  
**DCS-05/ CSP-014: NETWORK CYBER SECURITY**

**Time - 3 hours**

**Full Mark – 100**

*Answer all questions from Group - 'A', any four questions from  
Group - 'B, any four questions from Group - 'C' and any two question from Group- 'D'*

**Group 'A'**

*(Answer all the questions)*

**Q.No.1 (Choose the correct answer)**

**Mark: 1 × 10= 10**

- i. Which of the following is Passive Threat(s)?
  - a) Release of message contents
  - b) Traffic analysis
  - c) All of the above
  - d) None of the above
  
- ii. What are the two main types of intrusion detection systems?
  - a) Network-based and host-based
  - b) Signature-based and event-based
  - c) Both (a) and (b)
  - d) None of the above
  
- iii. IPS stands for:
  - a) Intrusion processing system
  - b) Intrusion prevention sensor
  - c) Intrusion prevention system
  - d) Interactive protection system
  
- iv. The act of deliberately accessing computer systems and networks without authorization is generally known as:
  - a) Computer intrusions
  - b) Hacking
  - c) Cracking
  - d) Probing
  
- v. Which of the following is not an active network threat?
  - a) Masquerade
  - b) Replay
  - c) Traffic analysis
  - d) Denial of service
  
- vi. IDS stands for
  - a) Intrusion Detection Sensor
  - b) Intrusion Diagnosis System
  - c) Intrusion Declaration System
  - d) Intrusion Detection System
  
- vii. Intrusion detection system provides the following:
  - a) Monitoring and analysis of user and system activity
  - b) known attacks Abnormal activity analysis
  - c) Both (a) and (b)
  - d) None of the above

- viii. Which of the following is a security goal?
- Confidentiality
  - Integrity
  - Availability
  - All of the above
- ix. What is the term used to describe the ability of a network technology to be easily resized to meet the growing or changing requirements of an organization?
- Scalability
  - Portability
  - Interoperability
  - Accessibility
- x. Honeypots are used to:
- Monitor network usage by employees
  - Process alarms from other IDSs
  - Attract customers to e-commerce sites
  - Are traps which are set to detect attempts at any unauthorized use of information systems?

**Group 'B'**

**Q.No.2 (Answer any four questions each within 50 words)**

**Marks: 5 × 4= 20**

- What is an SQL injection?
- What do you mean by System Threats?
- What is Operating System Vulnerability?
- What are the benefits of forensic readiness?
- Write a brief notes on COBITS?
- What are the common criteria of Evaluation of IT Security?

**Group 'C'**

**Q.No.3 (Answer any four questions each within 200 words)**

**Mark: 10 × 4= 40**

- Mention the desktop security policies?
- Write the different types of Trojan horse.
- What do you mean by database security?
- What is a Program threat? List and explain some well-known program threats.
- What is DRP? Write its benefits of DRP.
- What is a Digital Signature? Explain with example.

**Group 'D'**

**Q.No.4 (Answer any two questions each within 250 words)**

**Mark: 15 × 2= 30**

- Write the short notes how to make your personal computer secured?
- What is a programming bug? Explain the impact of programming bug.
- What is a malicious code? Explain the different malicious codes.
- Define Operating System Security. What are the mechanisms employed to ensure operating system security?

==0==