

- Q.27 Differentiate between encryption and decryption of data? (CO-2)
- Q.28 Explain configuration policy of cyber assets. (CO-6)
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- Q.34 What is process configuration? (CO-3)
- Q.35 What is ethical hacking explain it with example? (CO-1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What do you mean by heuristic scanners and also explain deploying virus protection. (CO-3)
- Q.37 What are the types of firewall and its limitations? (CO-4)
- Q.38 Write short note on the following:
- a) Host based IDS set up (CO-5)
 - b) Disaster category (CO-8)

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6th Sem / Computer Engg.

Subject : Network Security

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The field that covers the variety of computer network, both public and private, that used in everyday job? (CO-1)
- a) Artificial Intelligence
 - b) ML
 - c) IT
 - d) Network Security
- Q.2 Which one of the following is a key function of Firewall? (CO-4)
- a) Copying
 - b) Moving
 - c) Deleting
 - d) Monitoring
- Q.3 SSL provides _____ (CO-2)
- a) Message integrity
 - b) Confidentially
 - c) Compression
 - d) All of the above
- Q.4 The protocol 'POP' stand for (CO-1)
- a) Personal office protocol
 - b) Post office protocol
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- Q.36 What do you mean by heuristic scanners and also explain deploying virus protection. (CO-3)
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6th Sem. / Computer/IT
Subject : Network Security

Time : 3 Hrs.

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SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 RSA _____ (CO-2)
Q.2 HTTPS _____ (CO-2)
Q.3 RAID stands for _____ (CO-8)
Q.4 Encryption occurs at _____ end (CO-2)
Q.5 Non-Repudiation is one principle of Network Security.(T/F) (CO-1)
Q.6 Teardrop attacks cannot be detected by IDS. (T/F) (CO-5)
Q.7 VPN _____ (CO-7)

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Q.8 Ethical Hacking is allowed and legal activity.(T/F) (CO-1)

Q.9 Single point of failure is a type of Network Disaster(T/F) (CO-8)

Q.10 DOS attack is a type of _____ attack.(CO-1)

SECTION-B

Note: Very Short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 Define Firewall. (CO-4)
Q.12 Define Hacking . (CO-1)
Q.13 What is cyber crime. (CO-1)
Q.14 Name two types of Disaster. (CO-8)
Q.15 What do you mean by IDS. (CO-5)
Q.16 Who are phreaker. (CO-1)
Q.17 Define MD5. (CO-2)
Q.18 VIRUS stands for _____ (CO-3)
Q.19 What is Decryption. (CO-2)
Q.20 What is Cipher Text. (CO-2)

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Q.21 List two Virus Scanners. (CO-3)

Q.22 Two technologies used in VPN are _____
and _____. (CO-7)

SECTION-C

Note: Short answer type questions. Attempt any five questions out of ten questions. 5x8=40

Q.23 Explain Firewall and its types. (CO-4)

Q.24 List various limitation of IDS. (CO-5)

Q.25 Differentiate between white-listing and Blacklisting. (CO-4)

Q.26 Explain various principles of Network Security. (CO-1)

Q.27 Explain UPS and its types. (CO-8)

Q.28 Write a note on
(a) Zoombie (b) Ransomware (CO-3)

Q.29 What are digital signatures. List its main functions. (CO-2)

Q.30 What is Cyber Asset. How will you handle cyber asset. (CO-6)

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Q.31 What is IT Act 2000. (CO-1)

Q.32 Give an overview of RSA and PGP. (CO-2)

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Explain network security and its need. Also explain different types of attack. (CO-1)

Q.34 What do you mean by Encryption and Decryption. Explain DES with the help of Diagram in detail. (CO-2)

Q.35 Write a note on
(a) Teardrop attack. (CO-5)
(b) Digital Certificates. (CO-2)
(c) Types of Virus. (CO-3)

Q.36 Explain VPN and its working. Also Explain different types of Technologies used in VPN. (CO-7)

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Subject : Network Security

Time : 3 Hrs.

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SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

Q.1 Define firewall.

Q.2 What are end points in VPN?

Q.3 What is cipher text?

Q.4 Define clustering.

Q.5 DES stands for _____.

Q.6 Define encryption.

Q.7 Define stream cipher.

Q.8 What is Internet backup?

Q.9 What is ethical hacking?

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Q.10 SSH stands for _____.

SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

Q.11 What is IPSec?

Q.12 Define passive attacks?

Q.13 What do you mean by ethical hacking?

Q.14 Define differential backup.

Q.15 Differentiate between HTTP and HTTPS.

Q.16 What are digital certificates?

Q.17 Name any two IDS limitations.

Q.18 Define SSH.

Q.19 What are various firewall types?

Q.20 Define non-repudiation.

Q.21 What is certifying authorities?

Q.22 Define access control list.

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SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 What is the need of network security?

Q.24 Explain 3-DES with the help of diagram.

Q.25 What are various principles of network security?

Q.26 What is cyber-crimes? What are its various types?

Q.27 Explain RSA encryption with diagram.

Q.28 Explain MD5 along with its various properties.

Q.29 What do you mean by Worms? Explain its any two types. <http://www.hsbteonline.com>

Q.30 State firewalls? Explain any two firewall functions in detail.

Q.31 What are various types of hackers? Explain in detail.

Q.32 Define clustering? What are its various advantages?

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SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 What is VPN? What are its various types? Explain with the help of diagram.

Q.34 What do you mean by RAID. What are its various levels? Explain in detail.

Q.35 What is virus? Explain its various components in detail.

Q.36 Write short note on :

a. Digital signature

b. Cyber ethics

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6th Sem / Computer Engg.

Subject : Network Security

Time : 3 Hrs.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 The field that covers the variety of computer network, both public and private, that used in everyday job? (CO-1)

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- b) ML
- c) IT
- d) Network Security

Q.2 Which one of the following is a key function of Firewall? (CO-4)

- a) Copying
- b) Moving
- c) Deleting
- d) Monitoring

Q.3 SSL provides _____ (CO-2)

- a) Message integrity
- b) Confidentially
- c) Compression
- d) All of the above

Q.4 The protocol 'POP' stand for (CO-1)

- a) Personal office protocol
- b) Post office protocol
- c) Privacy overall protocol
- d) Privacy over protocol

Q.5 _____ is an example of public key algorithm. (CO-2)

- a) RSA
- b) DES
- c) IREA
- d) RCS

Q.6 VPN stand for _____. (CO-7)

- a) Visual Public Network
- b) Virtual Public Network
- c) Virtual Private Network
- d) Visual Private Network

Q.7 "parity bits" are used for which of the following purposes? (CO-3)

- a) Encryption of data
- b) To transmit faster
- c) To detect errors
- d) To identify the user

Q.8 Firewalls are used for _____. (CO-4)

- a) Routing
- b) Security
- c) Unauthorized access
- d) Congestion control

Q.9 RAID stands for (CO-8)

- a) Redundant array of independent disks
- b) Reading array of independent disks
- c) Redundant array of inter disks
- d) Redundant array of independent drives

Q.10 _____ is used to validate the identity of the Message sender to the recipient. (CO-2)

- a) Encryption
- b) Decryption
- c) Digital Certificate
- d) None of these

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define term security of data over internet. (CO-1)
- Q.12 What is IT Act 2000 amended 2008? (CO-1)
- Q.13 Define virus Scanners. (CO-3)
- Q.14 What are the different types of encryption? (CO-2)
- Q.15 Define PGP. (CO-2)
- Q.16 Explain host. (CO-5)
- Q.17 Define cyber crime. (CO-6)
- Q.18 What is IDS? (CO-5)
- Q.19 Define VPN. (CO-7)
- Q.20 Expand clustering. (CO-8)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write down various features of IT Act 2000. (CO-1)
- Q.22 Explain the concept of encryption and decryption. (CO-2)
- Q.23 What are the disposable policies in handling of cyber assets system? (CO-6)
- Q.24 Explain IDS counter measures. (CO-5)
- Q.25 Explain Digital signatures? (CO-2)
- Q.26 Draw a neat diagram of VPN and explain it with example. (CO-7)

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- Q.27 Differentiate between encryption and decryption of data? (CO-2)
- Q.28 Explain configuration policy of cyber assets. (CO-6)
- Q.29 Define digital certificate and IP Sec. (CO-2)
- Q.30 Define cycle redundancy check. (CO-2)
- Q.31 What is application level virus scanner? (CO-3)
- Q.32 Write a note on configuration of required objects in VPN. (CO-7)
- Q.33 Explain about network disasters. (CO-8)
- Q.34 What is process configuration? (CO-3)
- Q.35 What is ethical hacking explain it with example? (CO-1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What do you mean by heuristic scanners and also explain deploying virus protection. (CO-3)
- Q.37 What are the types of firewall and its limitations? (CO-4)
- Q.38 Write short note on the following:
 - a) Host based IDS set up (CO-5)
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6th Sem. / Computer Engg / IT

Subject : Network Security

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define the term phishing.
 - b) Define the term social engineering virus.
 - c) Define address translation.
 - d) What do mean by network disaster management?
 - e) Define cyber laws.
 - f) Define RSA.
 - g) Define static packet Filtering.
 - h) What is Authentication?
 - i) RAID stands for _____

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- j) What do you mean by decryption?
- k) Define differential backup.
- l) Define DOS attacks.
- m) Define proxy server.
- n) What do you mean by Network security?
- o) What is cipher text?
- p) Define heuristic scanner.
- q) Define ethical hacking.
- r) What do you mean by hashing?

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What are the various new features added in IT act amended in 2008.
 - ii) How can we secure data over internet?
 - iii) Differentiate between digital signature and digital certification.

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- iv) Explain various methods for preventing system from malicious software.
- v) Write various password policy features?
- vi) What are the required characteristics of network for establishing VPN session?
- vii) What do you mean by session hijacking?
- viii) What are the limitations of intrusion detection system?
- ix) Draw a labeled diagram for VPN and explain it with example.
- x) Explain virus scanner in brief.
- xi) Differentiate between HTTP and HTTPS.
- xii) What are various limitations of firewalls?
- xiii) Write down the steps for modifying security policy?
- xiv) What are the methods to prevent network disasters?
- xv) What is Worm? Explain its types.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain the term Encryption. What are its methods? Explain with example.
- Q.4 What is computer virus? Explain its various types with their relative advantages and disadvantages.
- Q.5 Define IDS. Explain the different types of IDS.
- Q.6 What are the principle of security?
- Q.7 Write short notes on :
 - a) Handling cyber assets
 - b) SSH