



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
(Autonomous)
End Semester Examination: OCT / NOV 2024
Faculty: Science and Technology

Program: BSc(Comp05)
Program (Specific): Computer Science
Class: T.Y.BSc (Computer Science)
Name of the Course: Computer Networking and Security
Course Code 24-CS-352
Paper: II

Semester: V

SET:A
Course Type: DSEC-I
Max.Marks: 35

Time: 2Hr

Paper: Instructions to the candidate:

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labeled diagram wherever necessary.*

SECTION: A

Q1) Multiple Choice Question

[5 X 1=5]

- 1) _____ protocol is designed to create security association
a) SSL b) PGP c) VPN d) IKE
- 2) Which of the following is used to encrypt data?
a) Cipher b) Cryptosystem c) Plaintext d) Crypto
- 3) A video consists of sequence of _____
a) Frames b) Signals c) Packets d) Slots
- 4) In tree each node has a _____
a) secondary name b) Primary name c) Domain name d) DNS tree
- 5) Which protocol is known as pull protocol _____
a) HTTP b) SMTP c) FTP d) TCP

Q2) Attempt any Four of the following

[4 X 1=4]

- 1) State the purpose of Domain Name System.
- 2) Define Multimedia.
- 3) Enlist categories of Substitution Ciphers.
- 4) Write down the types of Firewall.
- 5) Enlist transmission modes of FTP.
- 6) What is Resolution.



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SECTION: B

Q3) Attempt any Four of the following

[4 X 2=8]

- 1) Encrypt the following message using Rail fence Transposition Cipher
“Nothing is impossible” Key = 3.
- 2) Differentiate between SSL and TLS.
- 3) Explain FTP servers.
- 4) Write a short note on Proxy firewall.
- 5) Explain types of User agent.
- 6) Explain plaintext and cipher text.

1) SECTION: C

Q4) Attempt any Four of the following

[4 X 2=8]

- 1) Explain RTCP message types.
- 2) Write characteristics of ECB mode.
- 3) Explain SSL services.
- 4) Differentiate between Symmetric key cryptography and Asymmetric key cryptography.
- 5) Which two modes are used in IPSec.
- 6) Explain any Two types of Domains.

SECTION: D

Q5) Attempt any Two of the following

[2 X 5=10]

- 1) Explain the various approaches of streaming stored audio/video.
- 2) Define Resolution. Explain types of Resolution with suitable diagram.
- 3) Explain various steps perform in each round of DES.
- 4) Explain any 5 services provided by Secure Socket Layer.