

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Sixth Semester)

Branch – INFORMATION TECHNOLOGY

NETWORK & INFORMATION SYSTEM SECURITY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 In public key cryptosystem _____ keys are used for encryption and decryption.
(i) Same (ii) Different
(iii) Encryption Keys (iv) Decryption keys
- 2 A _____ virus has a life that depends on the life of its host.
(i) transient (ii) resident
(iii) worm (iv) backdoor
- 3 _____ is the responsibility of the DBMS, the OS, and the computing system manager.
(i) Integrity (ii) Users
(iii) Owners (iv) Beneficiaries
- 4 Which is not an objective of network security?
(i) Identification (ii) Authentication
(iii) Access control (iv) Lock
- 5 _____ are designed to protect the expression of ideas.
(i) Copyrights (ii) Patents
(iii) trade secret (iv) IPR

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Outline the various types of security attack in detail.
OR
b Differentiate MD5 and Digital Signature.
- 7 a Explain how to append the virus to the program?
OR
b Point out the different file protection mechanism.
- 8 a Discuss two phase update in database.
OR
b Classify the types of disclosures.
- 9 a Interpret major types of network security threats.
OR
b Describe the issues of security planning.
- 10 a How do you protect programs and data? Explain.
OR
b Identify the various issues in computer crime.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Determine the basic components of computer security.
OR
b Outline the working process of public key cryptography.
- 12 a Summarize the different kinds of Malicious code.
OR
b Identify the various methods of memory protection.
- 13 a Illustrate the database security requirements.
OR
b Examine the proposal of multilevel security.
- 14 a Describe the various types of network security control.
OR
b Explain the organizational security policies and its purpose
- 15 a State the legal rights of employee and employer in computer security.
OR
b Inspect the ethical issues in computer security.

Z-Z-Z

END