

(6 pages)

Reg. No. :

Code No. : 7202

Sub. Code : PCSM 24

M.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2019.

Second Semester

Computer Science — Core

SECURITY IN COMPUTING

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The original form of a message is known as _____ and the encrypted form is called _____
- (a) Ciphertext, Plaintext
 - (b) Plaintext, Ciphertext
 - (c) Encryption, Decryption
 - (d) Decryption, Encryption

2. A _____ is an encryption in which the letters of the messages are rearranged.
- (a) Transposition
 - (b) Permutation
 - (c) Either (a) or (b)
 - (d) Both (a) and (b)
3. A resident virus locates itself in _____
- (a) Program
 - (b) Memory
 - (c) Both (a) and (b)
 - (d) None
4. DoS stands for _____
- (a) Denial of Service
 - (b) Digit of Service
 - (c) Data of Service
 - (d) Disk of Service
5. _____ is a person to define rules that organize the data and also controls who should Access and which part.
- (a) DB Administrator
 - (b) Programmer
 - (c) System analyst
 - (d) None



6. _____ is responsible for structural integrity of database.
- (a) Filters (b) Pattern
(c) Monitor (d) None
7. _____ is the error Detection code.
- (a) Parity check
(b) Huffman code
(c) Hash codes
(d) ALL
8. _____ supports Authentication in distributed system.
- (a) Kerberos (b) E-Mail
(c) IPSec (d) SSH
9. The ethical principle of _____ is also an assessment of both good and bad result
- (a) Egoism (b) Utilitarianism
(c) Deontology (d) Teleological
10. _____ are designed to protect the expression of ideas.
- (a) Piracy (b) Copyright
(c) Fair use (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) How encryption systems are broken?
Or
(b) Compare the characteristics of DES and AES.
12. (a) Write notes on Fixing Faults.
Or
(b) Write notes on Boot Sector virus.
13. (a) Describe about several forms of monitors.
Or
(b) What is tracker Attacks? Explain.
14. (a) Discuss about How a network differ from Stand- alone network?
Or
(b) What is Traffic flow security? Explain Onion routing.
15. (a) Write short notes on legal issues relating to informations.
Or
(b) Why computer crime is hard to prosecute?



PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write notes on:

- (i) Columnar Transposition
- (ii) Vernam cipher

Or

(b) Explain AES Encryption Algorithm.

17. (a) Discuss any Two non Malicious program error.

Or

(b) Write notes on:

- (i) Memory Resident viruses
- (ii) Polymorphic viruses
- (iii) Virus signature

18. (a) Explain Security requirements of database system.

Or

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(b) Discuss about:

- (i) Differentiated security
- (ii) Granularity
- (iii) Confidentiality

19. (a) (i) Explain categories of attack in Network.

(ii) Who attack network?

Or

(b) Write notes on:

- (i) Application Proxy
- (ii) Guard

20. (a) How can protect Program, Computer and Data?

Or

(b) Discuss about computer Crime.

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