



QP CODE: 20100315

Reg No :

Name :

BSc DEGREE (CBCS) EXAMINATION, FEBRUARY 2020

Fifth Semester

B.Sc Computer Science Model III

Core Course - CC5CRT05 - COMPUTER SECURITY

2017 Admission Onwards

877B8EC9

Time: 3 Hours

Maximum Marks :80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Which are the critical characteristics of Information?
2. What are the various types of malware? How do worms differ from viruses?
3. What are the two general approaches to attacking a cipher?
4. Explain with example, keyless transposition cipher.
5. How do conventional and public key encryption differ?
6. Define IDPS.
7. Explain application protocol verification in NIDPS.
8. Compare the header fields 'Content Type' and 'Content-Transfer-Encoding' in MIME.
9. Why does ESP include padding field?
10. List any four threats which compromise the integrity on the web.
11. What is the purpose of dual signature.
12. List any three design goals of a firewall.

(10×2=20)



Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the needs of Security.
14. Differentiate mono alphabetic and polyalphabetic ciphers.
15. Use Playfair cipher with key COMPUTER to encrypt the message CRYPTOGRAPHY?
16. Explain the encipherment process in Vigenere cipher.
17. Explain the purpose of using an IDPS.
18. List the applications of IP Security.
19. Describe how AH provide authentication.
20. Write shortnotes on various SSL Protocols.
21. Write shortnotes on Packet Filtering Routers.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. State and explain the principles of public key encryption.
23. Explain different countermeasures for securing a password.
24. Explain the architecture of IPsec with a neat diagram.
25. Explain about SSL architecture and Transport Layer Security in details.

(2×15=30)

