

BTICS501**V Semester Examination, December - 2022****B.Tech. (CSE-ICS)****Network Security and Cryptography**

Choice Based Credit System (CBCS)

Time: 3 Hrs.**Maximum Marks: 60****Minimum Pass Marks: 24**

Note: All questions carry equal marks, out of which part 'A' and 'B' carry 3 marks and part 'C' carries 6 marks. From each question, part 'A' and 'B' are compulsory and part 'C' has internal choice.
 Draw neat diagram, wherever necessary.
 Assume suitable data wherever necessary.

Q.1(A) Explain need of Security arises? 03
(B) Enlist different Threats in networks. 03
(C) Explain Network Security Controls –Architecture. 06

OR

Explain working of Honey pots.

Q.2(A) What are various Password Cracking Techniques? 03
(B) Enlist categories and types of firewall. 03
(C) Describe working of Proxy Servers and Anonymizers. 06

OR

Why Firewall is required?

Q.3(A) Write about Symmetric Key Cryptography. 03
(B) What is DES (Data Encryption Standard) algorithm? 03
(C) How does Triple DES work? 06

OR

Why IDEA (International Data Encryption Algorithm) algorithm is needed?

Q.4(A) What do you mean by Asymmetric key Cryptography? 03
(B) Why Diffie-Hellman Key Exchange is required? 03
(C) How does RSA algorithm work? 06

OR

How to protect from Man in Middle Attack?

Contd...

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| Q.5(A) | Explain SSL protocol. | 03 |
| (B) | How does Authentication Token concept work? | 03 |
| (C) | Write about Pretty Good Privacy. | 06 |

OR

Why Certificate based Authentication is required?
