| | 210 | 210 210 210 210 | 210 | |
|----------|-----------------|---|--------------------------|--|
| | | istration No : | 210 | |
| Tota | al Nu | mber of Pages : 01 | B.Tech | |
| | | | PCS7J001 | |
| | | 7 th Semester Regular / Back Examination 2019-20 CRYPTOGRAPHY & NETWORK SECURITY | | |
| | 210 | 210 210 BRANCH : CSE 210 | 210 | |
| | 210 | Max Marks : 100 | 210 | |
| | | Time : 3 Hours | | |
| | | Q.CODE : HRB021 | | |
| Ans | swer | Question No.1 (Part-1) which is compulsory, any eight from from Part-III. | Part-II and any two | |
| | | The figure s in the right hand margin indicate mark | 5. | |
| | 210 | 210 210 Part- ²¹⁰ 210 210 | 210 | |
| Q1 | | Only Short Answer Type Questions (Answer All-10) | (2 x 10) | |
| | a) | What is known plain text attach? How it is different from chosen plain | | |
| | b) | Differentiate between confidentiality and integrity? | | |
| | c) | What is one-way trapdoor function? Give one example. | | |
| | d) | What are the symmetric and asymmetric encryptions? What does you mean by Reply Attack? | | |
| | e) f) | Why network need security? | | |
| | g) ⁰ | Explain cryptanalysis. | 210 | |
| | h) | What is a threat? List some examples. | | |
| | i) | Mention services provided by PGP. | | |
| | j) | State the definition of intrusion detection. | | |
| | | Part- II | | |
| Q2 | | Only Focused-Short Answer Type Questions- (Answer Any Eigh | t out of (6 x 8) | |
| | 210 a) | Twelve) 210 210 210 210 210 210 210 210 210 210 | 210 | |
| | b) | Explain Fermat and Eluer's Theorem. | | |
| | - | Perform decryption and encryption using RSA algorithm with $p = 3$, q | ı = 11, e = 7 | |
| | C) | and N=5. | | |
| | d) | Briefly explain Deffie Hellman key exchange with an example. | | |
| | e) | What is IDS? Explain the profile based IDS? | | |
| | f) g)₀ | Explain about SSL Handshake protocol. Explain the Chinese remainder theorem with an example. 210 | 210 | |
| | 9/0 h) | Define virus. Explain in detail. | 210 | |
| | , i) | Define intrusion detection and the different types of detection me | hanisms, in | |
| | | detail. | | |
| | j) | How Hash function algorithm is designed? Explain their features and properties. | | |
| | k) I) | Explain secure electronic transaction. Write Short notes on S/MIME. | | |
| | •, | | | |
| | 210 | i art-in | 210 | |
| Q3 | | Only Long Answer Type Questions (Answer Any Two out of Fou Explain simplified DES with example. | r) (16) | |
| | | | | |
| Q4 | | Describe MD5 algorithm in detail. Compare its performance with SHA | . -1. (16) | |
| | | Explain the technical details of firewall and describe any three types | of firewall (16) | |
| Q5 | | | | |
| Q5 | 210 | with neat diagram. 210 210 210 210 | 210 | |
| Q5 Q6 | 210 | Explain the architecture of IP Security. | 210 (16) | |

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