| Total | l No. | o. of Questions : 8] | SEAT No.: | | | | |
|--------------------------------|------------|--|---------------|---------------------|--|--|--|
| P-4 | 57 | | [Total | No. of Pages : 1 | | | |
| | | [6003]-564 | | | | | |
| | | T.E. (Honour in Cyber Secur | rity) | | | | |
| INFORMATION AND CYBER SECURITY | | | | | | | |
| | | (2019 Pattern) (Semester - I) (| | - | | | |
| Time | 21 | 1/2 Hours] | ` | ax. Marks: 70 | | | |
| | | ions to the condidates. | [17] | ux. 11111 ks . 70 | | | |
| | 1) | Answer QI or Q2, Q3 or Q4,Q5 or Q6, Q7 or Q8 | 3. | | | | |
| | <i>2</i>) | Near diagram must be drawn wherever necessar | | | | | |
| | 3) | Figures to the right side indicate full marks. | 3 | | | | |
| | <i>4</i>) | Assume suitable data if necessary. | ر کین | | | | |
| | 5) | Use of Scientific Calculator is permitted. | | | | | |
| Q 1) | a) | Explain RSA algorithm step by step in detail w | ith exampl | e. [9] | | | |
| | b) | What is Chinese remainder theorem? What is Chinese remainder theorem? What cryptography? Explain with example. | hat is it ii | mplication in [9] | | | |
| Q 2) | a) | OR Explain Diffie Hallman in detail. Solve if p=7, or | q=17 using l | | | | |
| | | algorithm, select a=6, b=4. | | [9] | | | |
| | b) | Explain operation of MD5 Message digest algorithms and the second | orithm. | [9] | | | |
| Q3) | a) | What are the challenges in Social Engineering? | Explain cyl | per stalking.[8] | | | |
| | b) | Describe different categories of cybercrime wi | ith example | [9] | | | |
| | | OR | 23 | | | | |
| Q4) | a) | List the steps for risk identification and assess for Information Security. | ment in risl | x management [8] | | | |
| | b) | What are the objectives and pros and cons of Qurisk Assessment? | uantitative a | and Qualitative [9] | | | |
| | | ROUND STATE OF THE | | P.T.O. | | | |

| Q 5) | a) | What services are provided by IPSec? Give difference between Transport mode and Tunnel mode. | by IPSec? Give difference between Transport [9] | | |
|-------------|------|---|--|--|--|
| | b) | What protocols comprise SSL with neat diagram? What is the different between SSL connection and SSL session? | ce [9] | | |
| 06) | 0) | What much lam was Verbours designed to address? Evaloin its working | | | |
| Q6) | a) | What problem was Kerberos designed to address? Explain its working | ig. [9] | | |
| | b) | i) Roels of firewall | 9] | | |
| | | ii) Design goal of firewall iii) Different types of firewall | | | |
| | | iii) Different types of firewall | | | |
| | | iv) Limitation of firewall | | | |
| Q7) | a) N | Define, list and explain different types of viruses. | 8] | | |
| | b) | Explain Password Cracking and types of Password Cracking. [| 9] | | |
| Q 8) | a) | | | | |
| | b) | | | | |
| | | Explain intrusion detection system with its types limitations at challenges. What is DoS and DDoS attack? Explain with suitable example. | , · | | |
| [60 | 03] | -564 2 | | | |