

1T00162 - M.C.A. (SEM-II) (R-2020-21) / 70653 - Information Security

QP CODE: 10043747 DATE : 4 JAN 2024

Time: 3 Hours

Max. Marks: 80

- Q.1 is Compulsory
- Solve any three Questions from Q 2, Q 3, Q 4, Q 5 ,Q 6

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- Q.1** A) Explain PGP (5M)
B) Explain Kerberos. (5M)
C) Discuss Digital Certificate (5M)
D) Discuss Phone Rootkits. (5M)
- Q.2** A) Explain Modes of Operation of Block Cipher CBC and OFB in detail. (10M)
B) What is SHA -512? Explain SHA- 512 in detail. (10M)
- Q.3** A) Discuss Inference. What are the various approaches to deal with it? (10M)
B) What is Firewall? Discuss its types in detail. (10M)
- Q.4** A) What is IDS? Explain Statistical Anomaly Detection and Rule based Detection. (10M)
B) Explain SSL Handshake Protocol in detail. (10M)
- Q.5** A) Using Euclidean algorithm, find the greatest common divisor of the following:
i) 74 and 383 ii) 687 and 24 (10M)
B) Explain RSA algorithm with example. (10M)
- Q.6** A) Explain Digital Encryption Standard (DES) in detail. (10M)
B) What are the different security services? Explain each in brief with example. (10M)
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