

MCA (sem-II) 2 years Date: 10/12/24

Time: 3Hours

Max. Marks: 80M

- 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 Write short note on the following:

- A) PGP (5M)
- B) SOAP Web service (5M)
- C) Phone Rootkits (5M)
- D) MAC (5M)

- Q.2 A) What are the different security services? Explain each in brief with example. (10M)**
B) Explain RSA algorithm with example (10M)

- Q.3 A) Explain modes of Block Cipher CFB and CBC in detail. (10M)**
B) What is Firewall? Explain Packet filter and Circuit level firewall in detail. (10M)

- Q.4 A) What is IDS? Explain Statistical Anomaly Detection and Rule based Detection. (10M)**
B) What is Message Digest? Explain MD5 in detail. (10M)

- Q.5 A) Using Euclidean algorithm, find the greatest common divisor of the following: (10M)**
i) 74 and 383 ii) 687 and 24
B) Discuss Inference. What are the various approaches to deal with it? (10M)

- Q.6 A) What is Digital certificate? Explain Certificate creation and revocation process in detail. (10M)**
B) Explain SSL Handshake Protocol in detail. (10M)
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