

Total No. of Questions : 8]

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Roll No

MCADD-803
M.C.A. (Integrated), VIII Semester
Examination, May 2024
Network Security

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Give a brief overview on simplified DES algorithm. 9
b) Give an overview of Random Number Generation. 5
2. a) Explain the principles of Public Key Cryptography. 7
b) Discuss Diffie-Hallman key exchange algorithm in detail. 7
3. a) What is Authentication? Discuss Kerberos version 4 and 5. 7
b) Discuss MD5 algorithm in detail. 7
4. a) What is Email Security? Discuss PGP in detail. 7
b) Explain IP Security architecture with neat diagram. 7
5. a) What is Intrusion? Explain intrusion detection system. 6
b) Write a note on Password Management system. 8

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6. a) Write a short note on Steganography. 5
b) What is key management. Discuss different types of key management techniques? 9
7. a) What is MAC? Explain the requirements of MAC. 6
b) Explain the importance of Transport Layer Security (TLS). 8
8. Explain any three of the following. 14
a) Encapsulation Security Payload (ESP)
b) S/MIME
c) Trusted Systems
d) Cryptanalysis
