

10/01/21

Program: Master of Computer Applications

Curriculum Scheme: MCA 2 year Course

Examination: MCA I YEAR SEMESTER II

Course Code: MCA23 and Course Name: Information Security

Time: 2 HRS

Max. Marks: 80

Section I - MCQS (40 Marks) – 40 Minutes

Section II – Subjective (40 Marks) – 80 Minutes

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### SECTION II

**Q2. Solve any four questions (Each question carries 05 Marks)**

1. Distinguish between symmetric and asymmetric key encryption. State the advantage of both.
2. Explain Digital Certificates Process.
3. Discuss SSL as an internet security protocol and three major protocols used in SSL?
4. Using Euclidean algorithm, find the greatest common divisor of the following:
  - i. 24 and 320
  - ii. 401 and 700
5. Discuss Role-Based Access Control.
6. What are the principles of Security?

**Q3. Solve any two questions (Each question carries 10 Marks)**

1. Explain and differentiate between various architectures of firewall implementation.
2. What is mutual authentication? Explain various ways of implementing the mutual authentication.
3. Explain RSA with a suitable example.

