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Regulation R17
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1E5FE

B.Tech III Year I Semester Supplementary Examinations, July 2022
INFORMATION SECURITY
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date: 07.07.2022

Duration: 3 hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is an fabrication
- 2 Write a short notes on Security mechanisms
- 3 What are the types of block cipher modes of operations?
- 4 Write an importance of cipher feedback mode
- 5 Write X.509 authentication.
- 6 What is the role of compression function in a hash function
- 7 What are the available fields in authentication header
- 8 Write short notes on ESP.
- 9 Write about SSL Layer.
- 10 Write about intruders.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 With a neat diagram explain the model for network access security
OR
10M
- 12 Explain the transposition techniques with an example
10M
- 13 Explain DES Algorithm with an example.
OR
10M
- 14 Briefly discuss Block cypher modes of operation.
10M
- 15 Explain CMAC with neat diagram.
OR
10M
- 16 Briefly discuss about properties of Hash Functions
10M
- 17 Explain IP-Security Architecture with neat diagram.
OR
10M
- 18 Explain S/MIME content types?
10M
- 19 Discuss about virus and related threads
OR
10M
- 20 Discuss the types of Firewalls.
10M