Regulation R17 *Subject code:* 1P6FC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech III Year II Semester Supplementary Examinations, January 2023

CRYPTOGRAPHY AND NETWORK SECURITY

IT

Maximum Marks: 70 17/01/23 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 Write a short notes on objectives of security approaches
2 Explain cryptographic measures
3 Define Network security
4 What is the process and possible types of public key
5 Write a short notes on Blow fish algorithm
6 What are the advantages of using substitution methods
7 Discuss about Authentication requirements
8 Define Asymmetric key ciphers
9 Explain the process of wireless network security
10 Write ashort notes on E-MAIL security

Part-B

Answer All the following questions. (10M X 5=50Marks)

11 What are the basic fundamentals of the need for security and security approaches 10M

OR

12 Make a clear differences between symmetric and asymmetric cryptography 10M

13 Explain cryptographic hash functions and secure hash functions 10M

OR

14 Explain the process IP security architecture and their fuctions explain with an examples 10M
15 Explain about mobile device security and their functions 10M

OR

16 Explain briefly about secure socket layer and transport layer security process 10M
17 Explain encapsulation security payload with security associations 10M

OR

18 What is the description of wireless LAN security 10M
19 Explain briefly about digital signatures and elgamal digital signatures 10M

OR

20 Explain the process of Internet key exchange with examples 10M