R18 Regulation *Subject code:* 2E7EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, July 2022

NETWORK SECURITY

(COMPUTER SCIENCE & ENGINEERING)

Maximum Marks: 70 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 which carries 10M.
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 the purpose of HTTPS?
2 What protocols comprise TLS?
3 Define an extended service set.
4 What is the difference between TKIP and CCMP?
5 Define honeypot?
6 What is a DDoS?
7 What is Bastion host?
8 What is meant by IP Spoofing?
9 Define proxy
10 List types of property.

Part-B

Answer All the following questions. **(10MX 5=50Marks)**

11	A.	List and briefly define the parameters that define a TLS session connection.	5M
	B.	With neat diagram explain SSL architecture.	5M
		OR	
12	A.	What steps are involved in the TLS Record Protocol Transmission?	5M
	B.	Explain SSH Transport Layer Protocol Packet Exchange	5M
13	A.	Briefly describe the four IEEE 802.11i phases of operation.	5M
	B.	Explain IEEE 802.11i Key Hierarchies	5M
		OR	
14	A.	Explain WTLS Protocol Architecture	5M
	B.	Describe three alternative approaches to providing WAP end-to-end security	5M
15	A.	Explain UNIX password management? What is salt in this context?	5M
	B.	Write briefly about the signature based Intrusion Detection Systems.	5M
		OR	
16	A.	Describe some worm countermeasures.	5M
	B.	Briefly explain any five types of malicious softwares.	5M

17	A.	Explain a packet filtering firewall and a stateful inspection firewall?	5M
	B.	Explain four techniques used by firewalls to control access and enforce a security policy.	5M
		OR	
18	A.	Describe an application-level gateway and a circuit-level gateway.	5M
	B.	Explain VPN security with an example scenario.	5M
19	A.	Explain SNMP Message Formats	5M
	B.	Describe major changes in SNMP V2.	5M
		OR	
20	A.	Describe a classification of computer crime based on the role that the computer plays in the criminal activity.	5M
	B.	Describe the principal categories of users of digital rights managements systems.	5M