R20 Regulation *Subject code: 3E6GF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech. VI Semester Supplementary Examinations, December 2024

NETWORK SECURITY

(CSE (AI& ML))

Maximum Marks: 70 Date:07.01.2024 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)		CO	Bloom Tx
1	Write about change cipher spec protocol?	CO1	L2
2	How HTTPS is different from HTTP?	CO1	L2
3	What are the functions of Wireless Application Protocol?	CO2	L1
4	What is the IEEE standard for wireless LAN?	CO2	L2
5	What is the role of intruders?	CO3	L2
6	Define viruses and worms.	CO3	L2
7	How DDoS attacks are countered?	CO4	L2
8	Write the functions of Firewalls?	CO4	L1
9	Write the reasons for cybercrimes?	CO5	L3
10	Define phishing.	CO5	L2
	Part-B		
Answer All the following questions. (5X10M=50Marks)			
11	A. Difference between Secure Socket Layer and Transport Layer Security? (5M) B. Is it possible in SSL for the receiver to recorder SSL record blocks that arrive out of order? If so, explain how it can be done. If not, why not? (5M)	CO1	L2
	OR		
12	A. What is 3 way handshake protocol in transport layer? (5M) B. Explain the working of HTTPS? (5M)	CO1	L2
13	A. Explain the architecture of IEEE 802.11 LAN? (5M) B. Explain Wireless Transport Layer Security in detail? (5M)	CO2	L3
	OR		
14	A. What are the primary security considerations for ensuring end-to-end security in Wireless Application Protocol (WAP) systems? (5M) B. What are the key features and specifications of the IEEE 802.11 Wireless LAN standard? (5M)	CO2	L2

15	A. Difference between Virus and Worms? (5M) B. What are the types of Intrusion Detection system? (5M)	CO3	L3
	OR		
16	Describe the following various malicious software in detail? (10M) i) Spyware ii) Adware	CO3	L2
17	A .Write the significance of firewall in network security infrastructure? (5M) B. What is the significance of firewall Configurations in network security? (5M)	CO4	L3
	OR		
18	A. Explain the different types of firewalls in detail? (5M) B. What is the significance of firewall location in network security? (5M)	CO4	L2
19	A. Explain the concept of SNMP in detail? (5M) B. Hacking into a company's database to steal sensitive information such as customer data or financial records. Is it a computer crime? (5M)	CO5	L4
	OR		
20	A. Explain how cybercrime is different from computer crime? (5M) B. Discuss ethical aspects to be taken for securing network management? (5M)	CO5	L2