



R20 Regulation

Subject code: 3E6GF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Regular/Supplementary Examinations, July 2024

NETWORK SECURITY (CSE(AI&ML))

Maximum Marks: 70

Date:30.07.2024 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	What is SSL?	CO1	L2
2	How HTTPS is different from HTTP?	CO1	L1
3	What are the functions of Wireless Application Protocol?	CO2	L2
4	What is the IEEE standard for wireless LAN?	CO2	L1
5	What is the role of intruders?	CO3	L2
6	What are the type of malicious software?	CO3	L2
7	What are the benefits of firewalls?	CO4	L2
8	Are firewalls 100% secure? Justify?	CO4	L2
9	What are the functions of SNMP?	CO5	L1
10	List two examples of Cybercrime and Computer Crime?	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	L3
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	L2
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	A. How does the base-rate fallacy impact the detection and analysis of malicious software? (5M) B. What are effective strategies for countering computer viruses and other malicious software threats? (5M)	CO3	L2
17	A. How can firewall configurations balance security and network performance? (5M) B. Why are firewalls crucial for protecting networks from cyber threats? (5M)	CO4	L3
	OR		
18	A. Explain different Types of Firewalls?(5M) B. How do firewalls prevent unauthorized access to sensitive data? (5M)	CO4	L2
19	A. How does SNMPv1's community facility impact network security and management? (5M) B. How does network management ensure the security of intellectual property? (5M)	CO5	L3
	OR		
20	A. Write a short note on SNMP protocol? (5M) B. How do ethical concerns impact network management security? (5M)	CO5	L2