



R20 Regulation

Subject code: 3E6GF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Regular Examinations, June/July 2023

NETWORK SECURITY

(CSE(AI&ML))

Maximum Marks: 70

Date: 03.07.2023 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

(10 X 2 Marks = 20 Marks)

- 1 Define HTTPS.
- 2 List out the features of Secure Shell SSH.
- 3 State the IEEE 801.11 standard.
- 4 List out the features of wireless application protocol.
- 5 What are the 3 types of intrusion detection systems?
- 6 Compare virus and worm.
- 7 List out the benefits of firewall.
- 8 Define firewall and its characteristics.
- 9 State the features of SNMP.
- 10 What is the difference between cybercrime and cyber theft?

Part-B

Answer All the following questions.

(5 X 10 Marks = 50 Marks)

- 11 A. What are the security considerations to be considered while building a web page? 5 Marks
B. What are the two types of HTTPS? Give example. 5 Marks
OR
- 12 A. Is secure socket layer and transport layer security same? Justify. 5 Marks
B. Describe the difference between Secure Sockets Layer and Transport Layer Security? 5 Marks
- 13 A. Explain the IEEE 802.11i protocol. 5 Marks
B. On which Networking Model is WAP based upon? 5 Marks
OR
- 14 A. What is WAP? Explain WAP architecture with neat diagram. 5 Marks
B. Explain with suitable examples of wireless transport layer security. 5 Marks
- 15 A. Explain Intrusion Detection System in detail. 5 Marks
B. How can virus attacks be prevented? Explain. 5 Marks
OR
- 16 A. Discuss the base rate fallacy in intrusion detection. 5 Marks

- B. Classify the 4 types of denial of service attacks. 5 Marks
- 17 A. Describe the major three 3 functions of firewall. 5 Marks
B. What are Best Practices for Firewall Rules Configuration? 5 Marks
OR
- 18 A. What is a firewall and why is it important? Explain. 5 Marks
B. Describe in brief about the types of firewall. 5 Marks
- 19 A. What are the three important services of SNMPv3 security model? 5 Marks
B. Describe the 5 types of cyber-attacks. 5 Marks
OR
- 20 A. Sketch SNMP architecture and explain. 5 Marks
B. What is intellectual property? Give example. 5 Marks