

JK Lakshmipat University Jaipur
INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination, April 2024
B. Tech. (CSE), Semester VI, 2022-26

Roll No.....

EE1125: Introduction to Cyber Security

Time: 2.0 Hrs.

Max. Marks: 30

Instructions to students:

1. Do not write anything other than your roll number on question paper.
2. Mention all the assumptions for your answers clearly.

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- Q.1 Vodafone Intelligent Solutions (VOIS) must deal with customers who are mobile at India as well as UK. The company stores significant amount of Personal Identifiable Information (PII) of customers within India as well at UK. What safety standards do you recommend the company to implement and explain how the implementation will be make the system secure? 5.0
(EE1125.1)
- Q.2 Why does IP fragmentation of packets occur at Network layer? Manually construct IP fragments for a packet of 1500 bytes to generate fragments of size 500, 500,300,200 bytes in same order. Show the header associated with each fragment? 5.0
(EE1121.3)
- Q.3 Draw the schematic diagram and explain how TSL/SSL tunneling works? What is mutual authentication in VPN and how does it work? How are packets forwarded in tunnel? 5.0
(EE1121.4)
- Q.4 How does reverse path filtering prevent IP spoofing, explain with an example. 5.0
(EE1121.3)
- Q.5 What is the difference between TUN and TAP interfaces? How is bridging distinct from routing? 5.0
(EE1121.4)
- Q.6 What is Triage Forensic and what kind of information does it usually reveal? 5.0
(EE1221.8)