

**ANURAG Engineering College**

(An Autonomous Institution)

IV B.Tech I Semester Supplementary Examinations, December – 2024

**INFORMATION SECURITY****(COMPUTER SCIENCE AND ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	<b>Course Outcome</b>	<b>B.T Level</b>	<b>Marks</b>
1. What is Security?	CO1	L1	2M
2. List the components of information system?	CO1	L1	3M
3. Draw DES structure.	CO2	L3	2M
4. Define steganography.	CO2	L1	3M
5. What are the Authentication requirements? .	CO3	L1	2M
6. Write a short note on Kerberos.	CO3	L1	3M
7. What is Secure Socket Layer?	CO4	L1	2M
8. What does the S /MIME do?	CO4	L1	3M
9. What is password management?	CO5	L1	2M
10. List Types of firewalls.	CO5	L1	3M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Describe CNSS Security Model.	CO1	L3	10M
<b>OR</b>			
B) Explain the Approaches to Information Security Implementation.	CO1	L3	10M
12. A) What are the principles of public key cryptosystem?	CO2	L2	10M
<b>OR</b>			
B) Demonstrate RSA algorithm with an example.	CO2	L2	10M
13. A) Differentiate HMAC, MAC and SHA.	CO3	L3	10M
<b>OR</b>			
B) What are various approaches for digital signatures? Explain each in detail.	CO3	L3	10M
14. A) What are the services of IP Security?	CO4	L3	10M
<b>OR</b>			
B) Illustrate the five principle services that pretty good privacy (PGP) provides with neat diagrams.	CO4	L2	10M
15. A) What are the measures that may be used for Intrusion detection? Explain in detail.	CO5	L3	10M
<b>OR</b>			
B) Explain Virus and related threats.	CO5	L3	10M