1T01235 - T.E.(Information Technology Engineering)(SEM-V)(Choice Base Credit Grading System)
(R- 19) (C Scheme) / 32422 - Computer Network Security QP CODE: 10025760 DATE: 25/05/2023

Time: 3 hours   **Max. Marks: 80**

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INSTRUCTIONS

(1) Question 1 is compulsory.

(2) Attempt any **three** from the remaining questions.

(3) Draw neat diagrams wherever necessary.

Q1		**5 marks each**
a)	Explain Security Services and mechanisms to implement it.	
b)	Compare HMAC and CMAC	
c)	Explain different NAC enforcement methods	
d)	Explain SSH protocol stack in brief	

Q2		**10 marks each**
a)	Explain Playfair cipher with example	
b)	Describe different Block Cipher modes	

Q3		**10 marks each**
a)	State firewall design principles and its types with advantages.	
b)	Describe different types of protocol offered by SSL.	

Q4		**10 marks each**
a)	What is Network access control? Discuss the elements present in this context.	
b)	Explain Kerberos Protocol in detail.	

Q5		**10 marks each**
a)	Explain the working of IPsec in its different mode.	
b)	What is Network Management Security? Explain SNMP V3.	

Q6		**10 marks each**
a)	Explain IDS and its types in detail.	
b)	Define Malware. Explain at least five types with example.	

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