

Subject: Computer Networks Security
MCA Semester III

2023-24

Teamwork Topic		
Sr No	Topic Name	Roll NO
1	MD5 encryption algorithm	01, 34
2	HMAC encryption algorithms	02,35
3	Checksum techniques for Error correction and detection.	03, 36
4	File Transfer Protocol (FTP)	04, 37
5	AES Encryption algorithm	05 , 38
6	Cipher Feedback mode	06 , 39
7	3DES (Triple DES)	07, 40
8	DES algorithm	08,41
9	Minimum Hamming distance algorithm for various bit length code words	09,42
10	Post office Protocol (POP), File Transfer Protocol (FTP)	10,43
11	Congestion control protocol at Transport layer(e.g leaky bucket)	11,44
12	Simple Mail Transfer Protocol (SMTP), Telnet Protocol	12,45
13	Message Authentication one way hash function	13,46
14	RIP (Routing Information Protocol)	14,47
15	Advanced Encryption Standards (AES)	15,48
16	SHA-1 , SHA-512	16,49
17	Digital Signature Algorithm(DSA)	17,50
18	Hash Message Authentication Code (HMAC)	18,51
19	Distance vector routing algorithm	19,52
20	ARP and RARP protocols	20,53
21	TFTP [Trivial File Transfer Protocol]	21,54
22	PPP (Point to Point Protocol),IPV6 addresses	22,55
23	NAT address translation, next hop forwarding technique(IPv6)	23,56
24	Cesar cipher , datalink layer hop to hop transfer of frame	24,57
25	Telnet, Hyper Text Transfer Protocol (HTTP)	25,59
26	Diffie-Hellman algorithm	26,60
27	RSA Algorithm	27,61
28	RIP (Routing Information Protocol) , HDLC (high datalink protocol)	28,62
29	Bluetooth architecture ,layers, and protocols	29,63
30	Cipher Block chaining mode	30,64
31	Network Layer Forwarding process	31,65
32	UDP, SMTP Protocol	32,66
33	UDP ,SCTP Protocol	33,67
34	IP address and subnetting ,addressing in subnetted network	68,69
35	Character oriented and bit oriented protocols at DataLink Layer.	70,71 ,72

Note :

1. Termwork will be in individual
2. Mentioned the necessary pseudo code/algorithm/ programs whenever it applicable