-C.Marks

CBCS SCHEME

18CS52 USN

Fifth Semester B.E. Degree Examination, June/July 2023 **Computer Networks and Security**

Time: 3 hrs. darks:

Note: Answer any FIVE full questions, choosing ONE full question from each mode

Module-1

a. Explain briefly about the network application architectures with neat diagram. 10 Marks; 10 Marks. b. Explain the transport services provided by internet.

 Compare non persistent and persistent HTTP connections. (06 Marks) (08 Marks) b. Explain importance of cookies and web caching with neat diagram. Explain about DNS services. (06 Marks:

Module-2

a. Explain about connection oriented multiplexing and de-multiplexing with a near diagram. (10 Marks)

b. Explain UDP connection-less transport protocol and briefly explain TCP-segment structure GC Marks:

Explain about Go-back-N and Selective repeat protocols with neat diagram. (D Marks) Write a short note on TCP congestion control with fairness. :10 Marks

Module-3

Explain DHCP client server interaction with neat diagram. (87 Viarks Explain Network Address Translation (NAT) operations with neat diagram. (67 Market) Explain ICMP with error message types Ale Vierks

Discuss briefly four component functionalities of generic router architecture with acar (18 Marks diagram. FIN MATERI

Explain BGP inter-AS routing protocol with a neat diagram.

Module-4

Briefly explain various threats of network security. ile Marks Explain R.S.A algorithm with suitable example. C. G. Marks

Explain Diffie-Hellman key exchange algorithm with example. (10 MAKER: Brief importance of Firewall in securing network with neat diagram. (D) Mares:

Module-5

Explain 3 types of multimedia network applications with advantages. 1 CMW HT Explain content distribution network operation with neat diagram. ENCHIES

(ii) Packet-delay and (iii) Packet TRY Explain Voice-Over-IP: (i) Packet-loss " D VINCES

Explain SIP protocol with neat diagram.

ocureated as maipractice cemaining blank pages 42+8 = 5C, On completing your answers, compulsarity draw diagonal cross lines on the rem Any revessing of acculification, appeal to evaluator and for equations written eg. Important Note