

F 8377



Reg. No.....

Name.....

D.D.M.C.A. DEGREE EXAMINATION, DECEMBER 2025

Ninth Semester

Elective DMCA 905 (C)—INTERNET TECHNOLOGY AND APPLICATIONS

(2016 Admissions—Second Mercy Chance and 2015 Admissions—Final Mercy Chance)

Time : Three Hours

Maximum Marks : 75

Part A

*Answer any **ten** questions.*

Each question carries 3 marks.

1. What is the TC P/IP protocol suite ?
2. Define “Private Network”.
3. What is an IP address ?
4. Expand RIP and OSPF.
5. What is multicast routing ?
6. List the services provided by transport layer.
7. What is a UDP segment ?
8. Define the term “TCP Timers”.
9. Describe the use of DNS in the internet.
10. Define : “User Agent”.
11. What is multimedia ?
12. Comment on live streaming.

(10 × 3 = 30 marks)





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Part B

*Answer **all** questions.*

Each question carries 9 marks.

13. (a) Elucidate the OSI reference model with diagram and functions of each layer.

Or

- (b) Outline the subnetting and supernetting with example.

14. (a) Elaborate the MOSPF in multicast routing protocol.

Or

- (b) Draw and explain the general architecture of DHCP.

15. (a) Evaluate the procedure for TCP segment format with diagram.

Or

- (b) Discuss the general approaches for congestion control in TCP.

16. (a) Assume the various components of SSH.

Or

- (b) Elucidate the functions of Multipurpose Internet Mail Extensions (MIME).

17. (a) Discover the video compression standards with example.

Or

- (b) Compare and construct the live audio and video streaming.

(5 × 9 = 45 marks)

