

26802484



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Reg. No.....

Name.....

INTEGRATED M.C.A. (I.M.C.A.) DEGREE EXAMINATION, APRIL 2026

Sixth Semester

IMCA 603 — Elective (B)—INTERNET TECHNOLOGY AND APPLICATIONS

(2019 Admissions—Supplementary/2018 and 2017 Admissions—Mercy Chance)

Time : Three Hours

Maximum Marks : 75

Part A

*Answer any **ten** questions.*

Each question carries 3 marks.

1. What are the categories of connecting devices ?
2. Define : “Network Address Translation”.
3. What do you mean by RARP ?
4. Explain the concept of reverse path forwarding.
5. Mention the advantages of BOOTP
6. Define : “Congestion Control”.
7. Distinguish between the flow and error control.
8. Explain the operations of user datagram protocol.
9. Write a short note on domain name space.
10. Describe the basic concepts of Telnet.
11. How will you streaming live audio and video ?
12. List out the fourth approach using a media server and RTSP.

(10 × 3 = 30)

Turn over





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Part B

*Answer **all** questions.*

Each question carries 9 marks.

13. (a) Illustrate the TCP/IP protocol suite with diagram.

Or

- (b) Draw and explain the functions of virtual private network.

14. (a) Outline the interior gateway routing protocol using OSPF.

Or

- (b) Examine the implementation of Dynamic Host Configuration Protocol (DHCP).

15. (a) Determine the various services of SCTP.

Or

- (b) Analysis the connection termination using three-way handshaking in TCP.

16. (a) Evaluate the services of user agent in electronic mail.

Or

- (b) Summarize the message transfer agent in SMTP.

17. (a) Demonstrate the different methods of video compression.

Or

- (b) Enumerate the message types of RTCP with diagram.

(5 × 9 = 45)

