

26803098



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Reg. No.....

Name.....

INTEGRATED M.C.A. (IMCA) DEGREE EXAMINATION, JUNE 2026

Eighth Semester

IMCA 803—TCP/IP PROTOCOLS

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

Time : Three Hours

Maximum : 75 Marks

Part A

*Answer any **ten** questions.*

Each question carries 3 marks.

1. Explain the growth of the internet.
2. Write a note on Internet Architecture Board (IAB).
3. Show the message format of ICMP.
4. What is the use of home agent in mobile IP ?
5. What are the variables and timers in IGMP ?
6. Summarize the multicast addresses in IPv4.
7. Mention the typical applications of UDP.
8. What is congestion window ?
9. Distinguish between the multiplexing and demultiplexing in TCP.
10. Write down the time-sharing environment in TELNET.
11. Describe the need of anonymous FTP.
12. Define : “Cookies”.

(10 × 3 = 30)

Turn over





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Part B

*Answer **all** questions.*

Each question carries 9 marks.

13. (a) Elaborate the general architecture of IEEE 802.11 with wireless LANS.

Or

- (b) Compare and construct the circuit switching and packet switching.

14. (a) Measure the components and their interactions of ARP package.

Or

- (b) Dissect the structure of a router with diagram.

15. (a) Evaluate the process of IGMP protocol applied to host.

Or

- (b) Influence the functions of Stop-and-Wait Protocol with diagram.

16. (a) Assume the query and response messages in DNS.

Or

- (b) Interpret the data flow and flow control feedbacks in TCP.

17. (a) Conclude the various components of SECURE SHELL (SSH).

Or

- (b) Elucidate the packet format of IPv6 Protocol.

(5 × 9 = 45)

