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Reg. No......

Name.....

INTEGRATED M.C.A. (I.M.C.A.) DEGREE EXAMINATION, MARCH 2025

Sixth Semester

IMCA 603 (C)—Elective II—INTERNET TECHNOLOGY AND APPLICATIONS

(2019, 2018 and 2017 Admissions—Supplementary)

Time : Three Hours

Maximum Marks : 75

Part A

*Answer any **ten** questions.*

Each question carries 3 marks.

1. What do you mean by port addresses ?
2. What are the types of Internet Protocol (IP) ?
3. Write a note on ICMP.
4. Summarize the concept of multicast link state routing.
5. Define : “DHCP”.
6. What do you mean by OSPF protocol ?
7. Mention the features of SCTP.
8. What are TCP timers ?
9. Explain the DNS messages with diagram.
10. Distinguish between the recursive resolution and iterative resolution.
11. Describe the concept of digitizing video.
12. What is voice over IP ?

(10 × 3 = 30)

Turn over





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Part B

Answer all questions.

Each question carries 9 marks.

13. (a) Discuss the different layers of OSI reference model.

Or

- (b) Compare the Classful addressing and Classless addressing.

14. (a) Explain the exterior gateway routing protocols using BGP.

Or

- (b) Illustrate the multicast routing protocols using MOSPF.

15. (a) Outline the connection establishment using three-way handshaking in TCP.

Or

- (b) Draw and explain the functions UDP package.

16. (a) Examine the general architecture of electronic mail.

Or

- (b) Identify the SSH packet format with diagram.

17. (a) Evaluate the methods of audio compression.

Or

- (b) Determine the characteristics of real-time interactive audio and video.

(5 × 9 = 45)

