

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Computer Science)	Semester:	Fall 2022
	Duration:	20 minutes	Total Marks:	15
	Paper Date:	08-Nov-2022	Section	5B
	Exam Type:	Quiz 4 - Chapter 4	Page(s):	2

Student Name

Roll No.

Section:

**Q1. Encircle the correct option:**

[5 marks]

- ICMP is primarily used for \_\_\_\_\_
  - Routing
  - Addressing
  - Forwarding
  - Error and Diagnostic Functions
- Match the classes of IP addresses with their functional applications
  - Multicast services
  - Reserved for future use
  - Large organizations
  - Midsize Organizations.
  - Class A — iv, Class B — iii, Class D — ii, Class E — i
  - Class A — ii, Class B — iv, Class D — i, Class E — iii
  - Class A — iii, Class B — iv, Class D — i, Class E — ii
  - Class A — i, Class B — ii, Class C — iii, Class D — iv
- Network ID and a subnet ID
  - can never be the same
  - can be same
  - are always the same.
  - None of the above

**True/False:**

- Fragmentation is allowed in both, i.e. IP version 4 & IP version 6. [T / F]
- The IP version 4 address consist of 4 octets. [T / F]

**Q2.** An organization is granted a block with one of the IP addresses as 190.0.80.0 having net mask as 255.255.248.0. The administrator wants to create 32 subnets of fixed length.

You are required to find:

(i) the subnet mask to be configured in each subnet, (ii) 1st and last IP address in subnet 10, (iii) 20th and 50th IP address in subnet 20, (iv) number of addresses in each subnet, and (v) broadcast address in the last subnet. **[2\*5 = 10 Marks]**