



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A.Y. 2022-23)

	InSem Examination-IWinter 2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester:III	
	Name of Programme: B.Tech (AI and DS)	Pattern:2022	
	Name of Course: Computer Networks	Course Code: ADS222002	
	Max. Marks:30	Duration: 1 Hour	

**Instructions:** Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains Two page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome

**Question No. 1 Attempt following Question**

- a) Define network topology? Explain Star and Bus topologies. (5) CO1

**OR**

- b) Explain TCP/IP model with a neat diagram? (5) CO1

- c) Define following terms. (5) CO1

- (i) Bandwidth and Latency. (ii) Delay and bandwidth product

**OR**

- d) Compare Circuit Switching and Message Switching (5) CO1

- e) State Goals and Applications of Computer Network. (5) CO1

**OR**

- f) Compare Client Server and Peer to Peer Network Architecture. (5) CO1

**Question No. 2 Attempt following Question**

- a) Explain POP3 Protocol? (5) CO2
- OR**
- b) Explain DHCP in detail. (5) CO2
- c) Explain TELNET Protocol? (5) CO2
- OR**
- d) What is cryptography? State various features of cryptography. (5) CO2
- e) Comparison between HTTP and FTP. (5) CO2
- OR**
- f) Draw and Explain DNS. (5) CO2