



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:I | |
| Name of Programme: MCA | Pattern:2022 | |
| Name of Course:Data Communication and Network | Course Code:221003 | |
| Max. Marks:30 | Duration:1 | |

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 _01_ 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 and level of Blooms Taxonomy of the Question/sub-question

Question No. 1 Attempt following Question

- a) Define Types of Networks with examples, advantages and disadvantages (8) CO1

OR

- b) Describe Transmission Medium in details. (8) CO1
c) Show OSI Reference Model, TCP/IP Model in detail. (7) CO1

OR

- d) Describe Network Architectures and Network Devices in details. (7) CO1

Question No. 2 Attempt following Question

- a) Explain ARQ strategies: Error Detection and correction, Parity Bits (8) CO2

OR

- b) Describe Flow Control Protocols in detail. (8) CO2
c) Explain Multiple Access Protocols in detail. (7) CO2

OR

- d) Describe Binary Exponential Back-off algorithm. (7) CO2