



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

SUMMER-2024	
Exam Seat No.:	
Academic Year:2023-2024	Semester: III
Class: SYMCA	Program: MCA
Branch Code: M.C.A.	Pattern:2022
Name of Course: Elective II: B: Current Trends in Computing	Course Code:MCA223004B
Max. Marks:60	Duration:2.30 Hrs.

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 2 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

- 1a) Compare web1.0 web 2.0 and web 3.0. (6) CO1

Question No. 2 Attempt following Question

- 2a) Classify Blockchain from A Regular Old Centralized Database. (6) CO2

Question No. 3 Attempt following Question

- 3a) Explain in detail Industry 4.0, its goals and Design principles. (8) CO3

OR

- 3b) Describe Characteristics and Generation of Industrial Transformation IoT. (8) CO3

- 3c) Define interrupts in the context of embedded systems and Industrial Transformation IoT. (8) CO3

OR

- 3d) Discuss the importance of interrupt-driven pulse width modulation in industrial control systems. (8) CO3

Question No. 4 Attempt following Question

- 4a) Demonstrate dialog in android and write program to implement intent. (8) CO4

OR

- 4b) Provide examples of explicit and implicit intents and explain how they are implemented in Android applications to enable communication between components. (8) CO4

- 4c) Illustrate how adapters are used to populate views such as ListView or RecyclerView with data from a data source. (8) CO4

OR

- 4d) Illustrate the process of selecting a location provider in Android applications. (8) CO4

Question No. 5 Attempt following Question

- 5a) Illustrate different data types supported by Go and their respective use cases. (8) CO5

OR

- 5b) Illustrate Scalable web application and Go (8) CO5

- 5c) Sketch the steps involved in writing and executing a simple Go program. Provide a sample program that demonstrates basic Go syntax, including package declaration, importing packages, and defining the main function. (8) CO5

OR

- 5d) Demonstrate the concept of modularity in web application development using Go. (8) CO5

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