K. K. Wagh Institute of Engineering Education & Research, Nashik

(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:III
Class:PG-II	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 __02___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.

		Marks	CO
Question No. 1			
1a)	**Explain the basic characteristics of Web 1.0 and Web 2.0**	(6)	CO1
Question No. 2			
2a)	**Explain the concept of Blockchain and how it differs from traditional databases.**	(6)	CO2
Question No. 3			
3a)	**Explain the need for adopting Industry 4.0 in modern industries.**	(8)	CO3
	OR		
3b)	**Illustrate how Big Data and Artificial Intelligence contribute to Industry 4.0 technologies.**	(8)	CO3
3c)	**Explain the concept of IoT and its scope in industrial applications.**	(8)	CO3
	OR		
3d)	**Illustrate the working of an IoT system with examples of connected devices.**	(8)	CO3
Question No. 4			
4a)	**Write the steps to create a small Android application in Android Studio that captures user input and displays it on a new screen using an Intent.**	(8)	CO4

OR

4b)	**Describe how to create a Dialog in an Android application to confirm user actions, and illustrate with an example.**	(8)	CO4
4c)	**Explain how you would save a text file in internal storage of an Android device and later retrieve it.**	(8)	CO4

OR

4d)	**Explain how to select an appropriate location provider in Android and retrieve the user's current location.**	(8)	CO4

Question No. 5

5a)	**Demonstrate how to use identifiers and keywords correctly in a Go program by creating a small example.**	(8)	CO5

OR

5b)	**Implement a Go program to swap two numbers using a temporary variable and without using a temporary variable.**	(8)	CO5
5c)	**Design a Go-based web application structure that is maintainable, and explain the coding practices you would follow.**	(8)	CO5

OR

5d)	**Illustrate with an example how Go can be used to create a modular web application with separate packages for different functionalities.**	(8)	CO5

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