



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:MCA	Pattern:2022	
	Name of Course:Elective II: A: Information and Network Security	Course Code:MCA223004A	
	Max. Marks:30	Duration:1	

	<p>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.</p> <ol style="list-style-type: none">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	
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Question No. 1 Attempt following Question

- a) Describe Information Security? Explain Security Architecture in detail. (8) CO1

OR

- b) Discuss why we use Operational Models? Explain Operational Models in detail. (8) CO1
- c) What is mean by malicious code? Explain their types. (7) CO1

OR

- d) What is security Attack? Compare Active and Passive Attack. (7) CO1

Question No. 2 Attempt following Question

- a) Illustrate Symmetric Cipher Model. (8) CO2

OR

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| b) | What is Substitution Techniques? Illustrate different types of substitution techniques. | (8) | CO2 |
| c) | What is Cryptography? Illustrate Cryptanalysis and their attacks. | (7) | CO2 |

OR

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| d) | Illustrate Transposition Techniques in detail. | (7) | CO2 |
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