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### UNIT-III DIFFERENTIATION

Subject Name: Basic Mathematics      Roll No.:      Subject Code: 22103

- Important Instructions to candidates**
- The duration allotted for this paper is 2 hours. It is to be given to the candidate 15 minutes before the commencement of the examination.
  - The model answer and the answer written by candidate may vary for the identical question but to assess the understanding level of the candidate.
  - The language given such as Gujarati, Marathi, Hindi and English should not be given equal importance. This applies to subject English and communication skills.
  - While answering the question, candidate must give credit for partial responses indicated in the figure. The figure shows the number of marks awarded for each part. The candidate may give credit for any unattempted question.
  - Candidate may be given the credit for the unattempted questions. In such cases, the unattempted questions shall not be set as a basis for any difference in the candidate's answers and model answer.
  - In case of some questions credit may be given by judgment on part of examiner if relevant answer found in candidate's handwriting.
  - The programming language papers, credit shall be given in any other program based on equivalent concept.

Sl. No.	Q.No.	Answer	Marking Scheme
1		Attempt any THREE of the following	12
a)	Find the value of x if log <sub>10</sub> x = 2	$x = 10^2 = 100$	4
b)	Find the area of triangle whose vertices are (1, 2), (3, -1) and (2, 3)	$\text{Area} = \frac{1}{2}  x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2) $ $= \frac{1}{2}  1(-1 - 3) + 3(3 - 2) + 2(2 - 6) $ $= \frac{1}{2}  -4 + 3 - 8  = \frac{1}{2}  -9  = 4.5$	4
c)	Without using calculus find the value of $\cos^{-1}(\cos(\pi/4))$	$\cos^{-1}(\cos(\pi/4)) = \pi/4$	4

# Msbte Question Paper With Answer Machine Design

**Daniela Niemeyer**



**Msbte Question Paper With Answer Machine Design:**

## The Enigmatic Realm of **Msbte Question Paper With Answer Machine Design**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Msbte Question Paper With Answer Machine Design** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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