

## Scheme – I

### Sample Question Paper

Program Name : Computer Engineering Program Group  
Program Code : CO/CM/IF/CW  
Semester : Second  
Course Title : Applied Mathematics  
Max. Marks : 70

**22224**

Time: 3 Hrs.

#### Instructions:

1. All Questions are Compulsory.
2. Answer each next main Question on a new page.
3. Illustrate your answers with neat sketches wherever necessary.
4. Non Programmable pocket calculator is allowed.
5. Programmable pocket calculator is not allowed.
6. Figures to the right indicate full marks.
7. Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

#### Q.1 Attempt any FIVE of the following

10 Marks

- a) Define Even and Odd Functions.
- b) If  $f(x) = x^3 - 3x^2 + 5$ , find  $f(0) + f(3)$ .
- c) Find  $\frac{dy}{dx}$  if  $y = (x + 1) \cdot \log(x + 1)$
- d) Evaluate:  $\int (e^x + x^e + e^e) dx$
- e) Evaluate :  $\int \frac{dx}{2x + 1}$
- f) Find the area bounded by the curve  $y = x$ , X-axis & the ordinates  $x = 0$ ,  $x = 4$ .
- g) Find a real root of the equation  $x^3 - 4x - 9 = 0$  in the interval  $(2, 3)$  by using bisection method (Use two iterations).

#### Q.2 Attempt any THREE of the following

12 Marks

- a) Find  $\frac{dy}{dx}$  if  $x^2 + y^2 - xy - 2x + 5y - 6 = 0$  at  $(1, 2)$

# Sample Question Paper Applied Chemistry Second Sem

**Tobias Bleicker**



**Sample Question Paper Applied Chemistry Second Sem:**

## Reviewing **Sample Question Paper Applied Chemistry Second Sem**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Sample Question Paper Applied Chemistry Second Sem**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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