

## 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

**K Morrison**



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

## Embracing the Track of Expression: An Psychological Symphony within **Sample Question Paper Applied Chemistry Second Sem**

In some sort of taken by displays and the ceaseless chatter of fast interaction, the melodic beauty and emotional symphony produced by the prepared term frequently disappear into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Sample Question Paper Applied Chemistry Second Sem** a marvelous literary prize filled with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this charming masterpiece conducts viewers on a mental journey, well unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this touching examination, we will explore the book is main harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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