

## Scheme – I

### Sample Question Paper

Program Name : Computer Engineering Program Group  
Program Code : CO/CM/IE/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

**Anthony S. Fauci**



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