

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

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Sample Question Paper Applied Chemistry Second Sem:

The book delves into Sample Question Paper Applied Chemistry Second Sem. Sample Question Paper Applied Chemistry Second Sem is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Sample Question Paper Applied Chemistry Second Sem, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Sample Question Paper Applied Chemistry Second Sem
 - Chapter 2: Essential Elements of Sample Question Paper Applied Chemistry Second Sem
 - Chapter 3: Sample Question Paper Applied Chemistry Second Sem in Everyday Life
 - Chapter 4: Sample Question Paper Applied Chemistry Second Sem in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Sample Question Paper Applied Chemistry Second Sem.

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