

[4317] - 5

F.Y. B.Sc.

## CHEMISTRY - I

Physical and Inorganic Chemistry  
(Paper - I) (2008 Pattern) (Theory)

Time : 3 Hours]

Max. Marks : 80

Instructions to the candidates :

- 1) All questions are compulsory.
- 2) Draw neat diagrams wherever necessary.
- 3) Figures to the right indicate full marks.

**Q1) Answer the following questions :****[16]**

- a) Find the value of  $y$  in the equation  $y = 10^{-0.2218}$ .
- b) Define the term surface tension.
- c) What is the effect of temperature on viscosity?
- d) Explain the term catalyst with example.
- e) State second law of thermodynamics in the form of entropy.
- f)  $\text{BeF}_2$  is linear but  $\text{SF}_2$  is angular. Why?
- g) How many moles are present in 90 grams of water.
- h) What are the types of hydrogen bond.

**Q2) a) Attempt any four of the following :****[8]**

- i) Calculate the pH of  $1.2 \times 10^{-3}$  M HCl.
- ii) Find the value of  $x$  if  $\log_e 6.321 = x$ .
- iii) State any two rules of derivative.
- iv) Find the equation of line passing through the two points  $(-1, -1)$  and  $(2, 6)$ .
- v) Arrange the following equation in the form of  $y = mx + C$  and find out slope and intercept.  
 $15y = x + 30$ .
- vi) If  $y = \frac{x}{x^2 + 1}$ , find  $\frac{dy}{dx}$ .
- vii) If  $y = (3x^2 + 1)(x^3 + 2x)$ ; find  $\frac{dy}{dx}$ .
- viii)  $\int_{-2}^8 x^2 \, dx = ?$

# Fybsc Chemistry paper In Pune University 2014

**Daniela Niemeyer**

**Fybsc Chemistry paper In Pune University 2014:**

## **Fybsc Chemistrypaper In Pune University 2014** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Fybsc Chemistrypaper In Pune University 2014**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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