

**[4138] - 12**  
**M.Sc.**  
**BIOTECHNOLOGY**  
**BT - 12 : Cell Biology**  
**(2005 Pattern) (Sem. - I)**

*Time : 3 Hours]*

*[Max. Marks : 80*

*Instructions to the candidates:*

- 1) Attempt a total of five questions selecting at least two questions from each section.*
- 2) Answers to the sections must be written on separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*

**SECTION - I**

- Q1)** Explain a living eukaryotic cell as a structurally and functionally organised system. **[16]**
- Q2)** Illustrate the micromorphology of a cell as revealed through transmission electron microscopy. **[16]**
- Q3)** Explain the molecular organisation of biomembranes add a note on structure - function relationship. **[16]**
- Q4)** Write explanatory notes on: **[16]**
- a) Signal transduction.
  - b) Cell signalling.

**SECTION - II**

- Q5)** Explain the cell-cell and cell matrix interactions. **[16]**
- Q6)** What is meant by cell lineage? How is it maintained? Explain in the context of developmental biology. **[16]**

*P.T.O.*

# 2012 Question Paper For Biology

**Wolfgang Guggemos**



## **2012 Question Paper For Biology:**

## **2012 Question Paper For Biology** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **2012 Question Paper For Biology**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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