

## 免只 Objectives of Learning

Understand basic principles of Biology

Learn emerging knowledge and its relevance to individual and society

Promoting rational/scientific attitude towards issues related to population, environment and development

Awareness about environmental issues, problems and their appropriate solutions

Awareness about diversity in the living organisms and developing respect for other living beings

Understand that most complex biological phenomena are built on essentially simple processes

## What to Learn! (THEORY)

## UNIT 1

Diversity of living Organisms

- Chapter 1 The Living World
- Chapter 2 Biological Classification
- Chapter 3 Plant Kingdom

7 Marks

- Chapter 4 Animal Kingdom

UNIT 2
Structural Organization in Plants and Animals

## UNIT 3

Cell: Struature and Function

UNIT 4
Plant Physiology

UNIT 5
Human Physiology

- Chapter 5 Morphology of Flowering Plants
- Chapter 6 Anatomy of Flowering Plants
- Chapter 7 Structural Organization in Animals
- Chapter 8 Cell-The unit of Life
- Chapter 9 Biomolecules
- Chapter 10 Cell cycle \& Cell Division
- Chapter 11 Transport in Plants
- Chapter 12 Mineral Nutrition
- Chapter 13 Photosynthesis in Higher Plants

18 Marks

- Chapter 14 Respiration in Plants
- Chapter 15 Plant - Growth \& Development
- Chapter 16 Digestion \& Absorption
- Chapter 17 Breathing \& Exchange of Gases
- Chapter 18 Body Fluids \& Circulation
- Chapter 19 Excretory Products \& Their Elimination
- Chapter 20 Locomotion \& Movement
- Chapter 21 Neural Control \& Coordination
- Chapter 22 Chemical coordination \& Integration



## What to Learn! (PRACTICAL) contd.

Part A
List of Experiments

| S.No. | Typology of Questions | Very Short Answer (VSA) (1 mark) | Short <br> Answer-I <br> (SA-I) <br> (2 marks) | Short <br> Answer-II <br> (SA-II) <br> (3 marks) | Long <br> Answer (LA) (5 marks) | Tołal <br> Marks | \% <br> Weightage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Remembering- (Knowledge based Simple recall questions, to know specific facts, terms, concepts, principles, or theories, Identify, define, or recite, information) | 2 | 1 | 1 | - | 7 | 10\% |
| 2 | Understanding- (Comprehension -To be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information) | - | 2 | 4 | 1 | 21 | 30\% |
| 3 | Application (Use abstract information in concrete situation, to apply knowledge to new situations, Use given content to interpret a situation, provide an example, or solve a problem) | - | 2 | 4 | 1 | 21 | 30\% |
| 4 | High Order Thinking Skills (Analysis \& Synthesis)Classify, Compare, Contrast, or differentiate between different pieces of information, Organize and/or integrate unique pieces of information from a variety of sources | 2 | 1 | 1 | 1 | 12 | 17\% |
| 5 | Evaluation- (Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values) | 1 | 1 | 1 | - | 9 | 13\% |
|  | Total | $5 \times 1=5$ | $7 \times 2=14$ | $12 \times 3=36$ | $3 \times 5=15$ | 70(27) | 100\% |


| Type of <br> Question | Mark(s) per <br> Question | Total No. of <br> Questions | Total <br> Marks |
| :---: | :---: | :---: | :---: |
| VSA | 1 | 5 | 5 |
| SA-I | 2 | 17 | 14 |
| SA-II | 3 | 12 | 36 |
| LA | 5 | 3 | 15 |
| Total |  | $\mathbf{2 7}$ | $\mathbf{7 0}$ |

1. Internal Choice: There is no overall choice in the paper. However, there is an internal choice in one question of 2 marks weightage, one question of 3 marks weightage and all three questions of 5 marks weightage.
2. The above template is only a sample. Suitable internal variations may be made for generating similar templates keeping the overall weightage to different form of questions and typology of questions same.

## fici Textbooks to Refer



## Biology



GO Glorifying Career


MEDICAL \& HEALTHCARE SERVICES


Pharmaceutical


CIVIL SERVICES

| Teacher <br> Professor <br> Research fellowship <br> Doctorate |
| :---: |


| IAS <br> IPS <br> Bureaucrat <br> Intelligence Services |
| :--- |

Physiotherapy

| Bio Chemistry <br> Agriculfure <br> Fisheries Science <br> Scientist |
| :---: |

## And Loł many more!!!



THANK YOU

All the Best \& Happy Learning

