



WB BOARD

CLASS 12

SCIENCE

Class 12 Biological Sciences (Semester System)

New WBCHSE 4-Semester syllabus for Class 12 Biological Sciences: Semester III (35 Marks MCQ on OMR covering Plant/Human Reproduction, Mendelian and Molecular Genetics); Semester IV (35 Marks Descriptive covering Biology & Human Welfare, Biotechnology Tools & Applications, Ecology and Environment).

GOVERNING BOARD
WB Board

THEORY EXAMINATION
70 Marks (Sem III + IV)

INTERNAL / PRACTICAL
30 Marks (Practical)

EXAM DURATION
1 hr 15m (Sem III) + 2 hrs (Sem IV)

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Semester III (MCQ)	Reproduction & Genetics Unit 1: Reproduction in Organisms, Flowering Plants, Human Reproduction, Reproductive Health (17 Marks); Unit 2: Genetics and Evolution, Molecular Basis of Inheritance (18 Marks)	35
Semester IV (Descriptive)	Human Welfare, Biotech & Ecology Unit 3: Biology and Human Welfare - Health, disease, microbes (12 Marks); Unit 4: Biotechnology and its Applications (11 Marks); Unit 5: Ecology, Environment, Population, Ecosystem, Biodiversity (12 Marks)	35

INTERNAL / PRACTICAL ASSESSMENT SCHEME (30 MARKS (PRACTICAL))

EVALUATION COMPONENT	MARKS WEIGHTAGE
Practical Slide Preparation Floral dissection / pollen tube / temporary mount	10 Marks
Specimen Identification (Spotting) Morphological and anatomical adaptations	08 Marks
Project Report & External Viva Council external examiner evaluation	12 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: WBCHSE Biological Sciences, Santra Jibbidya (Dr. Dulal Dey), Chhaya Biology, Excellence Bio Diagrams

THE EXCELLENCE TUITION EDGE

Every unit in this curriculum is taught with structured conceptual lectures, followed by weekly speed-testing, detailed mistake analysis, and dedicated 1:1 doubt-clearing sessions to build board exam confidence.