

## BIHAR BOARD BIOLOGY SYLLABUS WITH MARKS WEIGHTAGE

### Unit-wise Distribution of Marks

Unit	Weightage
Unit 1: Reproduction	06
Unit 2: Genetics and evolution	18
Unit 3: Applied Biology & Human welfare	18
Unit 4: Biotechnology and its applications	18
Unit 5: Ecology and Environment	10
<b>Total</b>	<b>70</b>

### Detailed Syllabus Biology Class 12<sup>th</sup>

#### Unit 1: Reproduction

- Sexual Reproduction in Flowering plant: Pollination and fertilization
- Development of seed and fruit
- Reproduction in Humans: Male and Female Reproductive System, Menstrual cycle, production of gametes.
- Fertilization, implantation, embryo development, pregnancy and parturition.
- Reproductive health-birth control, contraception and STDs.

#### Unit 2: Genetics and evolution

- Basics of Inheritance: Chromosome Theory
- Deviations from Mendelism ratio
- Sex determination in Humans.
- Linkage and crossing over
- Blood groups in human beings: Inheritance pattern of haemophilia.
- DNA, replication, transcription, translation
- Gene expression and regulation, DNA Fingerprinting
- Genome and Human Genome Project
- Evolution: Theories and evidences



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### Unit 3: Biology & Human welfare

- Microbes in Human Welfare: household food processing, industrial production, Sewage treatment and energy generation
- Cancer and AIDS
- Adolescence and drug alcohol abuse
- Microbes as Bio control Agents Microbes as Bio fertilizers
- Animal Husbandry
- Basic concepts of immunology, vaccines,
- Enhancement in Food production plant Breeding Tissue Culture : Concept of Cellular, Totipotency, Requirements of Tissue Culture (in brief)
- Callus Culture, Suspension Culture
- Single Cell Protein. Biofortification

### Unit 4: Biotechnology and its applications

- Biotechnology Process
- Recombinant DNA technology: molecular diagnostic technique.
- Applications in Health & Medicines
- Applications in Agriculture
- Genetically modified (GM) organisms, Biosafety issues

### Unit 5: Ecology and environment

- Organisms and Environment
- Ecosystem
- Ecological pyramids
- Ecological Succession
- Nutrient Cycling
- Ecosystem Services
- Biodiversity and its Conservation
- Environmental Issues

This information would be useful for those who are looking for Physics Class 12<sup>th</sup> Syllabus of Bihar Board. Get to know the detailed syllabus of Class 12<sup>th</sup> for all Subjects and prepare accordingly for upcoming Exams.

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