NCERT Biology Class 11

All 19 Chapters · CBSE New Syllabus 2027-28 · NEET Weightage Guide

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Source: vocostudy.com/study-hub/ncert-biology-class-11 · Updated July 2026

Quick answer. CBSE Biology Class 11 (2027-28) has **19 chapters** across 5 units for board theory. For NEET, study the complete NCERT — Transport in Plants, Mineral Nutrition and Digestion & Absorption are removed from CBSE boards but remain fully examinable in NEET (7–10 marks combined).

CBSE 2027-28 Board Marks Distribution (Theory · 70)

Unit	Chapters	Marks
I · Diversity of Living Organisms	1–4	15
II · Structural Organisation	5–7	10
III · Cell: Structure & Function	8–10	15
IV · Plant Physiology	11–13	12
V · Human Physiology	14–19	18
Total	**19 chapters**	**70**

Unit I · Diversity of Living Organisms

Chapters 1–4 · Board: 15 marks

#	Chapter	NEET Weightage
1	**The Living World** Biodiversity, taxonomic hierarchy, binomial nomenclature	Moderate — 2–3 Qs
2	**Biological Classification** Two-kingdom to five-kingdom, Monera, Protista, Fungi, Lichens, Viruses	High — 3–4 Qs
3	**Plant Kingdom** Algae, Bryophyta, Pteridophyta, Gymnosperms, Angiosperms	High — 3–5 Qs
4	**Animal Kingdom** Porifera to Mammalia — classification and key features	High — 4–5 Qs

Unit II · Structural Organisation in Plants & Animals

Chapters 5–7 · Board: 10 marks

#	Chapter	NEET Weightage
5	**Morphology of Flowering Plants** Root, stem, leaf, flower, fruit, seed — types and modifications	High — 3–5 Qs
6	**Anatomy of Flowering Plants** Tissue systems, T.S. of root/stem/leaf, secondary growth	High — 3–4 Qs

7	**Structural Organisation in Animals** Tissues of animals, organ systems of cockroach, earthworm, frog	Moderate — 2–3 Qs

Unit III · Cell: Structure and Function

Chapters 8–10 · Board: 15 marks

#	Chapter	NEET Weightage
8	**Cell: The Unit of Life** Cell theory, prokaryotic vs eukaryotic, organelle structure and function	Very High — 4–6 Qs
9	**Biomolecules** Carbohydrates, proteins, lipids, nucleic acids, enzymes	High — 3–4 Qs
10	**Cell Cycle and Cell Division** Interphase, mitosis, meiosis — stages and significance	High — 3–4 Qs

Unit IV · Plant Physiology

Chapters 11–13 · Board: 12 marks

#	Chapter	NEET Weightage
11	**Photosynthesis in Higher Plants** Light reactions, Calvin cycle, C4 pathway, photorespiration	Very High — 4–5 Qs
12	**Respiration in Plants** Glycolysis, Krebs cycle, electron transport chain, fermentation	High — 3–4 Qs
13	**Plant Growth and Development** Growth phases, phytohormones, photoperiodism, vernalisation	High — 3–4 Qs

Unit V · Human Physiology

Chapters 14–19 · Board: 18 marks

#	Chapter	NEET Weightage
14	**Breathing and Exchange of Gases** Respiratory organs, ventilation, gas exchange, transport, disorders	High — 3–4 Qs
15	**Body Fluids and Circulation** Blood, lymph, human heart, cardiac cycle, ECG, disorders	Very High — 4–5 Qs
16	**Excretory Products and Their Elimination** Kidney structure, urine formation, tubular reabsorption, ADH, disorders	Very High — 4–5 Qs
17	**Locomotion and Movement** Types of movement, skeletal system, joints, muscle contraction	High — 2–3 Qs
18	**Neural Control and Coordination** Neuron structure, nerve impulse, CNS and PNS, reflex arc, sense organs	Very High — 4–5 Qs
19	**Chemical Coordination and Integration** Endocrine glands, hormones, mechanism of hormone action, disorders	Very High — 4–5 Qs

How to Read NCERT Biology Class 11 for NEET

Round 1 · First read (2–3 weeks).
Read every line of every chapter without notes. Do not highlight. Just read for comprehension. Complete all 22 chapters end-to-end.

Round 2 · Deep read (3–4 weeks).
Re-read with a highlighter. Highlight every number, every scientific name, every exception, and every table. Draw every diagram at least once.

Round 3 · Line-by-line for NEET (2 weeks).
Read each chapter line by line. If a line contains a testable fact, convert it into a Q&A; card. This is the phase that pushes 260 to 340.

Round 4 · PYQ mapping (ongoing).
For every NEET PYQ you solve, find the exact NCERT line it came from. Underline it. Add the year in the margin.

Must-Know Diagrams Checklist

- ■ Plant cell vs animal cell (labelled)
- ■ Chloroplast — thylakoid, grana, stroma
- ■ Structure of nephron
- ■ Alimentary canal with associated glands
- ■ Endocrine glands — location map
- ■ Life cycle of a moss (Funaria) and fern
- ■ Mitochondrion — internal structure
- ■ T.S. of dicot & monocot root and stem
- ■ Human heart — chambers, valves, vessels
- ■ Neuron — axon, dendrites, synapse
- ■ Structure of a typical flower (with parts)
- ■ Structure of bacterial cell

Common Mistakes to Avoid (2027-28)

• **Skipping NEET-only chapters.** Transport in Plants, Mineral Nutrition, Digestion & Absorption are OUT of CBSE boards but IN of NEET (7–10 marks).

• **Using old chapter numbers.** Photosynthesis is now Ch 11 (not 13), Respiration Ch 12, Plant Growth Ch 13.

• **Ignoring NCERT tables.** ~30% of NEET Biology Qs come directly from NCERT tables — read every one.

• **Reading NCERT only once.** Minimum 3 reads before NEET; toppers do 5–7.

• **Studying from PDF summaries.** No summary replaces line-by-line NCERT reading for NEET.

Full chapter-wise notes, diagrams, quizzes and audio revisions are free at
vocostudy.com/study-hub/ncert-biology-class-11
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