

FBISE HSSC-I BIOLOGY — PREDICTION & ANALYSIS REPORT 2026

Based on NCP 2022-23 Curriculum | Papers 2022–2025

1. CHAPTER WEIGHTAGE ANALYSIS

Chapter	Topic	MCQ Weight	SQ Weight	LQ Weight	Importance
Ch.1	Cell Structure & Function	15%	16%	20%	■ GOLD
Ch.2	Biological Molecules	14%	14%	18%	■ GOLD
Ch.3	Enzymes	12%	14%	20%	■ GOLD
Ch.4	Bioenergetics	12%	12%	18%	■ GOLD
Ch.5	Acellular Life (Viruses)	9%	10%	12%	■ SILVER
Ch.6	Prokaryotes	8%	8%	8%	■ SILVER
Ch.7	Protists & Fungi	7%	8%	4%	■ SILVER
Ch.8	Diversity: Plants	7%	6%	8%	■ SILVER
Ch.9	Diversity: Animals	6%	6%	0%	■ BRONZE
Ch.10	Form & Functions (Plants)	7%	8%	4%	■ SILVER
Ch.11	Digestion	5%	6%	8%	■ SILVER
Ch.12	The Circulation	5%	4%	8%	■ SILVER
Ch.13	Immunity	5%	4%	8%	■ SILVER

2. IMPORTANCE CLASSIFICATION

■ GOLD TIER — Must Prepare

- ✓ Cell membrane structure (Fluid Mosaic Model) — asked every year
- ✓ Enzyme mechanism: Lock & Key vs Induced Fit
- ✓ Factors affecting enzyme activity (temp, pH, inhibitors)
- ✓ Photosynthesis: light reactions + Calvin cycle equation
- ✓ Aerobic respiration: Glycolysis + Krebs + ETC — ATP count
- ✓ DNA structure and semi-conservative replication
- ✓ Protein structure: primary to quaternary
- ✓ Cell organelles: functions of mitochondria, ribosome, Golgi, ER

■ SILVER TIER — Very Important

- ✓ Virus structure + Lytic vs Lysogenic cycle
- ✓ HIV and AIDS mechanism
- ✓ Prokaryote structure + Gram staining
- ✓ Immunity: B cells, T cells, vaccines
- ✓ Human heart structure + cardiac cycle
- ✓ Digestion: role of liver, pancreas, small intestine
- ✓ Transpiration and cohesion-tension theory
- ✓ Plant diversity: Bryophytes, Pteridophytes, Gymnosperms, Angiosperms

■ BRONZE TIER — Important

- ✓ Phylum Arthropoda and Chordata characteristics
- ✓ Metamorphosis in insects
- ✓ Root pressure and osmosis in plants
- ✓ ABO blood group system
- ✓ Beneficial and harmful bacteria
- ✓ Economic importance of fungi

3. EMERGENCY / SMART PREPARATION LIST (Last 48 Hours)

If you have very limited time, focus on these HIGH-CERTAINTY topics:

1.	Fluid Mosaic Model of cell membrane — definition + diagram	95%
2.	Enzyme: Active site, competitive vs non-competitive inhibition	93%
3.	Photosynthesis equation + light vs dark reactions	92%
4.	ATP structure + role in energy transfer	91%
5.	DNA structure + semi-conservative replication	90%
6.	Lytic vs Lysogenic cycle of bacteriophage	89%
7.	Innate vs Adaptive immunity + B and T cells	91%
8.	Cardiac cycle + heart chambers + valves	88%
9.	Digestion: enzymes, organs, absorption in small intestine	87%
10	Protein denaturation + levels of protein structure	86%
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★ Best of luck for your FBISE Biology Exam 2026! ★