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Formative Topics HSSC-I Biology

CH NO.	TOPICS	PAGE NO.
1	• Topic 1.1: Cells-The Basic Unit of Life • Topic 1.2: Cell Theory • Topic 1.3: Microscopy • Table 1.1 • Topic 1.5.2: Plasma Membrane • Topic 1.12: Cell Division (only Mitosis, Meiosis)	• Pg: 6 • Pg: 6-7 • Pg: 7-9 • Pg: 9 • Pg: 12-14 • Pg: 33-38
2	• Topic 2.1: Biochemistry/Molecular Biology • Topic 2.2: Different Types of Bonds & Interactions Found in Biological Molecules • Topic 2.4: Condensation & Hydrolysis • Topic 2.8: Isomers & Stereoisomers of Glucose • Topic 2.24: Chemical Nature & Rule of ATP & NAD • Topic 2.28: Central Dogma of Life	• Pg: 44 • Pg: 44-46 • Pg: 47-49 • Pg: 54-56 • Pg: 74 • Pg: 77-78
3	• No Formative	-----
4	• Topic 4.1.4: Photosynthetic Pigments & Their Major Types • Topic 4.1.7: Arrangement of Pigments (Photosystems) • Topic 4.2.9: Importance of G3P • Topic 4.2.10: Cellular Respiration of Fats & Proteins • Topic 4.3: Photorespiration	• Pg: 104-105 • Pg: 107 • Pg: 124 • Pg: 125 • Pg: 125-128
5	• Topic 5.5: Viral Diseases (only Hepatitis C is formative, rest is summative) • Topic 5.5.2: Herpes Simplex • Topic 5.5.3: Poliomyelitis • Topic 5.5.4: Cotton Leaf Curl Disease	• Pg: 142 • Pg: 143 • Pg: 143 • Pg: 144

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CH NO.	TOPICS	PAGE NO.
6	• Use of Bacteria in Research • Use of Bacteria in Technology • Topic 6.7.4: Harmful Bacteria	• Pg: 167-168 • Pg: 168 • Pg: 168-171
7	• Topic 7.2.4: Fungi Like Protists • Topic 7.2.5: Oomycota • Topic 7.2.6: Importance of Protists to Humans • Topic 7.4: Diversity Among Fungi • Topic 7.5: Importance of Fungi • Table 7.6	• Pg: 185-186 • Pg: 186-187 • Pg: 187-188 • Pg: 191-195 • Pg: 195-200
8	• Life Cycle of Polytrichum • Life Cycle of Fern (Adiantum), Sporophyte Generation, Gametophyte Generation, Fertilization, Figure 8.10 • Topic 8.5.1: Gymnosperms • Topic 8.5.2: Angiospermic • Topic 8.5.4: Common Angiospermic Plant Families	• Pg: 208-210 • Pg: 212-214 • Pg: 215-219 • Pg: 219-222 • Pg: 223-226
9	• Topic 9.1.1: Types of Plant Nutrients, Table 9.1 • Topic 9.3.1: Movement of Water between Plant Cells & Their Environment • 3. Class Amphibia • 4. Class Reptiles • 5. Class Aves • 6. Class Mammalia • Subclass Prototheria • Subclass Metatheria • Subclass Eutheria	• Pg: 235-237 • Pg: 240-242 • Pg: 288 • Pg: 289 • Pg: 290-291 • Pg: 291 • Pg: 291-292 • Pg: 292 • Pg: 292-293

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CH NO.	TOPICS	PAGE NO.
10	No Formative	----
11	No Formative	----
12	Topic 12.1: Mendelian Inheritance - Various Human Blood Group System Topic 12.3.4: Erythroblastosis Foetalis Topic 12.7.1: Sex Linkage in Drosophila - Linkage can be Observed if the Number of Progeny too Large	- Pg: 311-316 - Pg: 320-321 - Pg: 324-325 - Pg: 334-335 - Pg: 339-341
13	- Fate of Synthesized Protein - Methods of Regulation of Gene Expression - Lac Operon	- Pg: 364-365 - Pg: 365-366 - Pg: 366
14	No Formative	
15	Topic 15.1.4: Primary Productivity Topic 15.2.2: Ecological Pyramids Topic 15.3.2: Water Cycle Topic 15.5.1: Characteristics of A Population Topic 15.6: Coral Reefs Topic 15.7: The Ecosystems of Pakistan	- Pg: 392-393 - Pg: 393-394 - Pg: 395 - Pg: 400-401 - Pg: 404-405 - Pg: 405-410

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