

BOARD OF SECONDARY EDUCATION KARACHI MODEL QUESTION PAPER

S.S.C. (ANNUAL) EXAMINATIONS 2021 for IX, 2022 for X & ONWARDS

BIOLOGY (THEORY) (Class IX)

Science Group

Total Marks 60

General Instructions:

Total Time: 3 Hours

Secti	ion 'A': It consists of 12 Multiple choice questions (MCQs) and all of them are to be answered.
Secti	on 'B': It consists of 15 short answer questions of which 10 questions are to be answered.
Secti	on 'C': It comprises 05 Descriptive answer questions of which 03 questions are to be answered.
	SECTION-A (COMPULSORY) MULTIPLE CHOICE QUESTIONS (MCQS)
(Time: Note:	30 Minutes) (12 Marks)
(i) (ii) (iii	Do not copy down the Questions. Write only the answer against the proper number of questions and its part.
Q. i.	 Choose the correct answer for each from the given options. The study of remote past organic space the help of fossils is: ★ Entomology ★ Paleontology ★ Taxonomy ★ Histology
ii.	The correct sequence of Biological Method is: ★ Law→ Theory→ Reasoning→ Hypothesis ★ Hypothesis→ Theory→ Reasoning ★ Hypothesis→ Reasoning→ Theory→ Law ★ Law→ Hypothesis→ Reasoning→ Theory
ii.	Correct way of writing a scientific name of an organism is: ★ Rana Tigrina ★ Rana tigrina ★ rana tigrina ★ R. tigrina
iv.	The process which does not require energy input is: ★ Active transport ★ Diffusion ★ Facilitated Diffusion ★ Osmosis
V.	Stage of mitosis in which chromatids reach the pole and their movement cease: ★ Prophase ★ Metaphase ★ Anaphase ★ Telophase
vi.	Enzymes are biocatalyst and mostly: ★ Steriod in nature ★ Lipid in nature ★ Carbohydrate in nature
vii.	Energy store in each mole of ATP is: ★ 7.3 K.cal/mole ★ 7.3 K.J/mole ★ 17.3 K.cal/mole ★ 17.3 K.J/mole
viii.	Spliting of water in the presence of light is: ★ Hydrolysis ★ Glycolysis ★ photolysis ★ Thermolysis
ix.	Deficiency of vitamin K cause: ★ Rickets ★ Anemia ★ Scurvy ★ Beri beri
X.	It involve in the clotting of blood: ★ Platelets ★ Haemoglobin ★ Albumin ★ Globulin
xi.	The movement of organic material (food) in plants take place through: ★ Xylem ★ phloem ★ Vessels ★ Tracheid

★ Cellulose and Protein

★ Lignin and Pectin

Secondary cell wall is made up of:

★ Cellulose and Pectin

★ Cellulose and Lignin

xii.



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MODEL QUESTION PAPER

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Time Duration 2-1/2 hours

Science Group

Marks: 48

SECTION "B" (SHORT ANSWER QUESTIONS) (Marks 30)

Answer any Ten questions from this section. Each question carries 03 marks. Answer should be clear and according to need. No extra detail is required.

- Q. 2 Write three differences between Prokaryotic cell and Eukaryotic cell.
- Q. 3 Define Immunology, Exocytosis and Plasmolysis.
- Q. 4 Write contribution of Jabir Bin Hayan, Abdul Malik Asmai and Bu Ali Sina in the field of Biology.
- Q. 5 Draw neat and labelled diagram of smooth muscles.
- Q. 6 Define any three types of chromosomes depending upon position of centromere.
- Q. 7 Why meiosis is called reduction division? Name different stages of Prophase-I of meiosis.
- Q. 8 Define Anaerobic and Aerobic respiration. Write chemical equation of aerobic respiration.
- Q. 9 Define Autotrophic nutrition and Heterotrophic nutrition. Write any one symptom of Nitrogen deficiency in plants.
- Q. 10 Draw a flowchart showing different types of plant tissues.
- Q. 11 What are Vitamins? Write about fat soluble and water soluble Vitamins.
- Q. 12 Write three fundamental postulates of Cell Theory.
- Q. 13 Define open circulatory system and closed circulatory system. Which one is found in man?
- Q. 14 Write a short account on Liver and its functions.
- Q. 15 Write any three differences between a plant cell and an animal cell.
- Q. 16 Define Parasitology, Developmental Biology and Pharmacology.

SECTION "C" (DETAILED ANSWER QUESTIONS) (Marks 18)

NOTE: Attempt any THREE questions from this section. Each question carries 06 marks.

- Q. 17 Draw a neat and Labelled diagram of internal structure of Human Heart.
- Q. 18 Write a detailed note on animal tissues. (Diagram is not necessary)
- Q. 19 Define Photosynthesis. Name two phases of photosynthesis and describe any one of them.
- Q. 20 What are enzymes? Describe any five characteristics of enzymes.
- Q. 21 What is transpiration? Where it occurs? Explain the factors affecting rate of transpiration.

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