

BOARD OF SECONDARY EDUCATION, KARACHI
Secondary School Certificate (S.S.C.) Annual Examination

Class X (Science Group)	Biology	2025	English Medium
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Max. Marks: 60 | Time: 3 Hours

SECTION "A" — MULTIPLE CHOICE QUESTIONS (MCQs) Marks: 12

NOTE: (i) Attempt all the Questions of this Section. (ii) Do not copy down the part questions. Write only the answer against the proper number of the Question and its part according to the question Paper. (iii) Each question carries 1 Marks.

1. Choose the correct Answer form the given Options:

(i)	The process of maintaining body temperature within suitable limit, is called: ☆ Homeotherm ☆ Heterotherm ☆ Osmoregulation ☆ Thermoregulation
(ii)	The type of reproduction in yeast is: ☆ Fission ☆ Budding ☆ Fragmentation ☆ Spores formation
(iii)	Respiratory surface processes the property: ☆ Thin and wet ☆ Permeable ☆ very large ☆ All of these
(iv)	The kidney is enclosed in a membrane which is called: ☆ Pericardium ☆ Peritoneum ☆ Pleural membrane ☆ Plumule
(v)	In this type of movement, organisms move towards or get away from the stimulus by growing their organ: ☆ Locomotory movement ☆ Tropic movement ☆ Nastic movement ☆ Paratonic movement
(vi)	The dough rises during alcoholic fermentation due to: ☆ Methyl alcohol ☆ Carbon dioxide ☆ Ethyl alcohol ☆ Water
(vii)	The inner thin layer of seed coat is called: ☆ Texta ☆ Chalaza ☆ Cotaladyn ☆ Tegmen
(viii)	The pair of muscles where both work in opposite direction is: ☆ Antagonist ☆ Cardiac ☆ Smooth ☆ Abductor
(ix)	"Kitab ul Manazir" was written by: ☆ Jabir Bin Hayan ☆ Ibn-ul-Haitham ☆ Ali Ibn-e-Isa ☆ Bu-Ali-Sina
(x)	Knee joint is an example of: ☆ Ball and Socket joint ☆ Sliding joint ☆ Hinge point ☆ Immovable joint
(xi)	The cells of nervous system are called: ☆ Nerve ☆ Stem cell ☆ Effector ☆ Neuron
(xii)	It is always at the beginning of a food chain: ☆ Herbivores ☆ Carnivores ☆ Decomposers ☆ Producers

SECTION "B" (Short Answer Question) Marks: 24

NOTE: Answer any **EIGHT (08)** questions from this section. Each question carries THREE (03) Marks.

2.	What is the role of Islet's of Langerhans cell?	3
3.	What is lungs Cancer?	3
4.	Describe the tools used in Genetic engineering.	3
5.	What are three important aspects of homeostasis? Define any two of them.	3
6.	Write three characteristics of Hydrophytes.	3
7.	Write the names of three mammals and three birds that are extinct endangered in Pakistan.	3
8.	Draw a neat and labelled diagram of T.S of angiospermic flower OR structure of Been seed.	3
9.	Differentiate between sexual and asexual reproduction.	3
10.	Draw a neat and labelled diagram of L.S of human skin.	3
11.	Define the following terms: (i) Myopia (ii) Suckers (iii) Consumers	3
12.	What is fermenter? Write any two advantages of it.	3
13.	What are the three main types of skeleton? Describe any one of them with example.	3

SECTION "C" (Detailed - Answer Question) (24)

NOTE: Attempt any **FOUR (4)** questions from this Section. Each question tries Six (6) marks.

14.	Describe in detail the structure of Human Brain.	6
15.	Draw a neat and labelled diagram of human respiratory system — OR — Reproductive system of male Rabbit.	6
16.	Define Ecosystem and describe its biotic factors in detail.	6
17.	Explain the difference between epigeal and hypogeal germination with the help of diagram.	6
18.	What is fertilization? Describe any five differences between external fertilization and internal fertilization.	6
19.	What is water pollution? How can it be controlled?	6

Notes on this reproduction

- Typeset by Tayarri from the printed question paper; no answer key is reproduced. The source sheet is pre-ticked by the publisher, so options are given unmarked.
- Source sheet is a guide reprint: no board monogram and no paper code are printed.
- Board spellings kept verbatim: “Texta” (testa), “Cotaladyn” (cotyledon), “Hinge point” (hinge joint), “Been seed” (bean seed), “Respiratory surface processes the property”, “extinct endangered”, “Choose the correct Answer *form* the given Options”, and “Each question *tries* Six (6) marks”.
- Cross-medium difference: the Urdu-medium sheet gives the first option of MCQ (vii) correctly as “Testa”, where this sheet prints “Texta”.