

# IMPORTANT SHORT QUESTIONS

## CHAPTER 01

Differentiate between qualitative and quantitative observations.

Enlist basic steps of biological problem.

Write down the characteristics of a good hypothesis ?

What were the major observations about malaria during the 19<sup>th</sup> century ?

List any three observations made by A.F.A king about malaria?

What is meant by vector?

## Chapter 2

What are the main aims and objectives of classification?

Differentiate b/w absorptive and ingestive heterotrophs.

Write down the drawbacks of three Kingdom classification system.

Into how many groups are the organisms classified on the basis of nutrition?

Write down the taxonomic classification of human beings and pea.

Why is the mule not considered a specie?

Write down the significance of binomial nomenclature.

Why viruses are not included in the 5 kingdom classification system.

Differentiate between prions and viroids and how are they different from viruses?

## Chapter 3

What is fluid mosaic model

Why mitochondria are called the powerhouse of the cell

List advantages and disadvantages of plant cell and animal cell

List the functions of liver cells

What are stem cells and how they

Why root hair cells and vascular tissues are in longitude and RBC are biconcave and cave in shape

## Chapter 4

What type of changes occur in G<sub>1</sub>, G<sub>2</sub> phase and S phase?

How cytokinesis is different in plant cell and animal cell

Define crossing over synapsis and class Chiasmata

Write down the significance of meiosis .

### Chapter 5

What is the role of the endocrine system in homeostasis?

Write down the functions of different types of cells present in the leaf.

Explain the homeostatic role of the body in temperature regulation through a flowchart.

### Chapter 6

Draw general structure of amino acid

Draw the structure of glucose and ribose

write down the function of antibodies fibrinogen and hemoglobin in the body

write down the sources of carbohydrate

Differentiate between monosaccharide, disaccharide and polysaccharide

Draw label structure of nucleotide write down the functions of three types of RNA

### Chapter 7

Define metabolism and its two types differentiate between intracellular and extracellular enzymes

What is the effect of temperature on enzymatic activity

What are cofactors what are the different types of cofactor

Draw labelled a structure of ATP

Give an overview of photosynthesis with the help of a diagram

Differentiate between alcoholic fermentation and lactic acid fermentation

### Chapter 8

Define transpiration also discuss its types

What type of adaptations made by Xerophytes for osmoregulation what are ebony trees?

Why gardener add autumn leaves in the soil?

What are excretophores?

Why transpiration is known as necessary evil?

### chapter 9

Differentiate between binary and multiple fission

What is meant by haplo diplontic life cycle in plants?

Define double fertilization./ why the fertilization of angiosperm is known as double fertilization ?

Define alternation of generation.

Differentiate between insect pollinated flower and wind pollinated flower.

Why sexual reproduction is advantages than a sexual reproduction

Differentiate between hypogeal and epigeal germination

## Chapter 10

English the main sources of variation

Differentiate between convergent and divergent evolution

Differentiate between natural selection and artificial selection

What is speciation

