



**Q1(A) Choose the correct alternative and rewrite the sentence :**

(3)

(1) The process of separating the nitrogenous waste from blood with the help of a man made machine is called .....

- a) sonography  
b) chemotherapy  
c) ureters  
d) dialysis

(2) The term 'father of genetics' is used for the scientist .....

- a) Morgan  
b) Darwin  
c) Mendel  
d) Marie Curie

(3) The substance that triggers the fall of mature leaves and fruits from plants is due to .....

- a) auxin  
b) abscisic acid  
c) gibberellin  
d) cytokinin

**(B) Answer the following questions as per the given instructions :**

(2)

(1) Find co-related terms

(1)

Roots : Root pressure :: Leaves : \_\_\_\_\_

(2) Name the following

(1)

Name the any two blood related physiological genetic diseases.

**Q2(A) Give scientific reasons (any one) :**

(2)

(1) DNA molecules are called as 'Master molecules'.

(2) An excess of alcohol in the body causes one to lose control over itself.

**(B) Answer the following (any one) :**

(2)

(1) Fill the given table by the reason occurring for the mentioned diorder.

(chromosomal abnormality, single or multiple gene disorder)

Disorder	Reason for the disorder
Klinefelter syndrome	.....
Constricted stomach	.....
Sickle-cell anaemia	.....
Turner syndrome	.....

(2) (1) Meninges (2) Chemotropic

**Q3) Answer the following (any two) :**

(6)

(1) Complete the paragraph.

(1995, DNA sequence, diagnosis, 20,000 to 30,000, Cerolo Genomics Corporation, treatment, 30,000 to 40,000, Celera Genomics Corporation, 1990)

Human Genome project was undertaken in ....., by all the geneticists of world. In June 2000, scientists

of this project and ..... collectively announced the discovery of the complete ..... of the human genome. Scientists confirmed the presence of about ..... genes in the human genome. This project helped to identify disease causing genes, due to which proper ..... and ..... of various genetic diseases has become possible.

(2) Complete the paragraph:

(amino acids, fruits, translocation of materials, phloem, seeds, leaves, xylem)

The food produced in ..... is transported to each cell in the plant body. Excess food, except ....., is stored in roots, ..... and ..... . This process is called ..... . It is carried out in both the upward and the downward directions by the ..... .

(3) Several different organ systems function in multicellular organisms.

**Q4) Answer any one of the following :**

**(5)**

(1) How does excretion occur in human beings?

(2) Answer the following questions:

(1) What is present in tobacco which leads to harmful effects?

(2) In which two ways is tobacco generally consumed?

(3) Excess tobacco can cause effects on which parts of the body?

(4) What present in tobacco smoke causes blackening of lungs?

(5) Name any two chemicals present in tobacco.

All the Best