

Self Assessment Test

Std:10.

FM:20

Question 1 : Name the following in one word.

- (a) The cell organelle that contain the chromosomes.
- (b) The cell organelle which has a DNA of its own.
- (c) The plant tissue connected with the transport of water.
- (d) The outer layer of a vacuole. [4x1=4]

Question 2 : Correct the statement by changing the first word.

- (i) Rubber sheath us a semi-permeable membrane.
- (ii) XX is the pair of sex chromosomes found in male.
- (iii) Chromomere is the point of attachment of spindle fibre to chromosomes. [3x1=3]

Question 3

- I) Define Tonicity
- II) Deplasmolysis
- III) Phenotype. [3x1=3]

Question 4

- (i) What is Mendel's law of Segregation?
- (ii) What is F1 generation. State the phenotypic ratio in Dihybrid cross?
- (iii) A tall homozygous dominant plant is crossed with Dwarf recessive. Explain the Law of Dominance with a simple cross. What is the genotypic and phenotypic ratio if F1 generation is self crossed.
- [3]

Question 5

- a) What is the difference between wall pressure and turgor pressure. [1]
- b) What is imbibition? [1]
- c) RBC is crenated if placed in a hypertonic salt solution. Explain. [1]
- d) Draw a flaccid cell and label it. [2]
