**SAMPLE PAPER**

**Class : XI**

**SUBJECT : BIOLOGY**

**Max. Marks : 70 Duration: 3 hrs**

***General Instructions:***

***(i) All questions are compulsory.***

***(ii) This question paper consists of four Sections A, B, C and D. Section A contains 8***

***Questions of one mark each, Section B is of 10 questions of two marks each, Section***

***C is of 9 questions of three marks each and Section D is of 3 questions of five marks***

***each.***

***(iii) There is no overall choice. However, an internal choice has been provided in one***

***Question of 2 marks, one question of 3 marks and all the three questions of 5 marks***

***Weightage. A student has to attempt only one of the alternatives in such questions.***

***(iv) Wherever necessary, the diagrams drawn should be neat and properly labeled.***

**Section - A**

1. Give the scientific name of mango and lion?
2. Identify the phyllotaxy.



1. Which organism has typhlosole and what is its function.
2. What is satellite?
3. What are porins and aqua porins?
4. What is Blackman’s Law of Limiting Factors.
5. A Chinese boy has a number of teeth in his oral cavity. Each tooth is embedded in a socket of jaw bone. What is this type of attachment called. Name the dentation in which deciduous teeth are replaced by adult teeth.
6. Expand the terms HMM and LMM.

**Section – B**

1. What are bulliformcells.what is function of intrafascicular cambium.
2. Explain with diagram fluid mosaic model of plasma membrane.
3. Explain with diagram types of chromosomes based on the position of Centromere.
4. Make structures of
5. Adenine
6. Cholesterol
7. Explain any two functions affecting enzyme activity with graph.
8. What are isomerases and ligases.
9. Explain symplastic and apoplastic pathways of water movement in plants.
10. Explain physiological functions of gibberellins.
11. Explain Rh compatibility in relation to pregnancy. What is *erythroblastosis foetalis*.
12. Explain alimentary canal of cockroach.

**Section - C**

1. Explain the terms-
2. Differentiation
3. Dedifferentation
4. Rediffrerntation.
5. How would you distinguish between monocots and dicot (any six points).
6. What are the modifications that are observed in birds that help them fly. What is importance of air bladder in pisces?
7. Explain with diagram hypogynous, perigynous and epigynous flowers.
8. Discuss any three disorders of circulatory system.
9. Explain with diagram the mechanism of concentration of filterate.
10. Labell the diagram (any six).



1. Give a brief account of viruses with respect to their structures and nature of genetic material. Also name four common viral diseases.
2. Explain all stages of mitosis. Also explain its significance.

**Section – D**

1. Explain the vegetative ,floral ,characteristics ,floral formula and economic importance of Lilaceae family.

**OR**

Explain the vegetative ,floral ,characceristics ,floral formula and economic importance of Solanaceae family.

1. Explain Glycolysis with a flow chart.

**OR**

 Explain Citric acid cycle with a flow chart.

1. Classify hormones on basis of their chemical nature. Explain mechanisms of hormonal action.

**OR**

 Explain the terms-

1. IRV
2. ERV
3. IC
4. FRC
5. VC.

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