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### MODEL QUESTION PAPER -1

|                         |                                     |                           |
|-------------------------|-------------------------------------|---------------------------|
| <b>Class : II PUC</b>   | <b>Subject : Biology</b>            | <b>Subject Code : 36</b>  |
| <b>Year : 2020 – 21</b> | <b>Duration : 3 hour 15 minutes</b> | <b>Maximum Marks : 70</b> |

- Instructions:** 1. This question paper consists of four parts A, B, C and D.  
2. All parts are compulsory.  
3. Draw diagrams wherever necessary. Unlabeled diagrams or illustrations do not attract any marks.

#### Part-A

**Answer the following questions in one word or a sentence each:**

**10X1=10**

1. What is perisperm?
2. Who proposed Chromosomal theory of inheritance?
3. Name the hormone released by the ovary in the later stage of pregnancy?
4. Which RNA is called adaptor molecule?
5. Expand GEAC.
6. Mention the use of cyclosporine A.
7. Name the contraceptive for the female developed by CDRI.
8. Define colostrum.
9. What are sacred groves?
10. State the Allen's rule.

#### Part-B

**Answer any five of the following questions:**

**5X2=10**

11. Define embryogenesis. List the two events during embryogenesis.
12. List the adaptations seen in wind pollinated plants.
13. What is apomixis. Mention the significance.
14. Name the male sex accessory ducts found in male reproductive system.
15. Distinguish between benign and malignant tumors.
16. Draw a neat labelled diagram of structure of an antibody.
17. Name the major biome of India.
18. Discuss the role of microbes as biofertilizers.

### Part-C

Answer any five of the following questions:

5X3=15

19. What is the significance of double fertilization in angiosperms?
20. What is placenta? List any two hormones secreted by placenta.
21. Give three differences between euchromatin and heterochromatin.
22. What is infertility? Give the reason for infertility in human.
23. Explain sex determination mechanism in human.
24. Explain any three types of barrier for an innate immunity.
25. Briefly explain the steps involved in PCR technique.
26. How do we conserve biodiversity with reference to in situ and ex situ conservation.

### Part-D

#### Section-I

Answer any four of the following:

4X5=20

27. With the help of a neat labelled diagram explain the structure of a mature embryo sac.
28. Explain Mendel's experiment to describe Inheritance of two genes with reference to shape and colour of the seed.
29. Draw neat labelled diagram of Human female reproductive system.
30. Explain Lac Operon concept.
31. Development of BT cotton has reduced the use of insecticides. Justify
32. Write a note on 1) Commensalism 2) Sexual deceit.

#### Section-II

Answer any three of the following:

3X5=15

33. What is incomplete dominance? Explain with respect to flower colour in the *Antirrhinum sp.*
34. List the goals of Human Genome Project.
35. a) Draw a neat labelled diagram of biogas plant (3M).  
b) Write the role of microbes in the production of biogas (2M).
36. Explain useful measures for prevention and control of alcohol and drug abuse among adolescents.
37. Write the steps involved in Recombinant DNA Technology.

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