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**IRKN16**  
**11022-Y**  
**BIOLOGY**  
**(Zoology)**

Time : 2 ½ Hours]

[Maximum Marks: 35

(Long Answer Type Questions)

5 each

Explain the structure of 'Human Male Reproductive System'. Illustrate your answer with a neat and labelled diagram.

*Or*

Define Fertilization. Briefly enlist the events that take place during Fertilization.

Name the Chromosomal disorders in humans. Explain any *two* of them in detail.

*Or*

Define Hardy Weinberg's principle. What is its significance ? Add a note on adaptive radiation.

Turn Over

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-22-Y

**(Short Answer Type Questions)**

What is "Placenta". Write down its main functions.

Write a short note on "Ramapithecus".

Write down the causes of "Filariasis".

What is Cloning? What is its significance ?

**(Very Short Answer Type Questions)**

Write *two* major functions of Testes and Ovary.

Give points of difference between Satellite DNA and Repetitive DNA.

Define Immunity. Name its types.

What do you mean by "Microbial cloning"?

**(MCQ/Objective Type Questions)**

1. (i) Expand the terms ZIFT and GIFT.

(ii) Down's syndrome is ..... of chromosome. (Fill up)

(iii) Fins and Flippers are homologous organs. (True/False)

(iv) Name the protozoan which causes "Nosema" disease in honeybees.

(v) Which of the following is not a lymphoid tissue ?

(a) Spleen

(b) Appendix

(c) Tonsils

(d) Thymus

(Choose the correct one)