

**D-4-B**

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

**XIIARKDN20**

**2004-B**

**ZOOLOGY**

**(Biology)**

**Time : 1½ Hours]**

**[Maximum Marks : 35**

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Section-A

(Objective Type Questions) 1 each

Note :- Do as directed.

1. Non-occurrence of menses is named as ..... (Fill in the blank)

2. Genetic bottleneck is also called wright effect. (True/False)

3. Drugs which induce dreamy state of unconsciousness are :

(A) Hallucinogens

(B) Sedatives

(C) Stimulants

(D) Depressants (Choose the correct one)

4. Substitute with one word :

"Providing a functional gene to overcome a defective gene."

Section-B

(Very Short Answer Type Questions) 2 each

5. Give an elementary idea of IVF and ZIFT.

6. Write a short note on 'Gene Cloning'.
7. Write down two applications of DNA recombinant technology.

Or

Name the enzymes used for cutting and joining DNA.

### Section-C

(Short Answer Type Questions)                      3 each

8. Define Asexual Reproduction. Explain any three types of Asexual reproduction in brief.
9. Write down the goals of Human Genome Project. <https://www.jkboseonline.com>
10. Write down at least three differences between Turner's and Klinefelter's syndrome.
11. Write down symptoms and preventive measures of Amoebiasis.
12. How does tobacco smoking lead to oxygen deficiency?

Or

Write down the points of difference between Innate and Acquired Immunity.

### Section-D

(Long Answer Type Questions)                      5 each

13. What are assisted reproductive techniques practised to help infertile couples ? Describe any two of them in brief.

Or

What are Contraceptives ? Explain in brief mode of action, advantages and disadvantages of hormonal contraceptives. <https://www.jkboseonline.com>

14. What do you mean by Sex-Determination ? Explain in brief various methods of sex-determination in animals.

Or

What do you mean by Genetic Disorders ? Describe any two of them.