

A-4-Z

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

XIIWZJDAR21

5104-Z

ZOOLOGY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

(Objective Type Questions)

1 each

1. Expand the term GIFT and MTP.
2. Sudden appearance of an ancestral character is called Atavism.
(Say yes/no)
3. Humoral Immune System is made up of B-lymphocytes.
(True/False)
4. The process of vaccination was discovered by :
(A) Edward Jenner
(B) Robert Koch
(C) Louis Pasteur
(D) Von Behring
(Choose the correct one)

XIIWZJDAR21-5104-Z

A-4-Z

Turn Over

Section-B

(Very Short Answer Type Questions)

2 each

5. Explain the term MTP in brief.
6. What is the basic concept of 'Immunology' ?
7. Write a short note on Insect Resistance.

Or

Give the points of difference between Gene Cloning and Gene Therapy.

Section-C

(Short Answer Type Questions)

3 each

8. Draw a well labelled diagram of microscopic anatomy of testis.
9. What is Klinefelter's Syndrome ? Give its *three* significant symptoms.
10. Explain adaptive radiation. Give *one* example in support of your answer.
11. Name the causative agent of filariasis ? Write down its symptoms.
12. Write short note on recombinant DNA technology.

Or

Write short note on Gene Therapy.

Section-D

(Long Answer Type Questions)

5 each

13. Define Asexual reproduction, mention various methods of Asexual reproduction. Describe any *three* of them.

Or

- Define Gametogenesis. Explain the steps involved in the process of spermatogenesis.
14. What is DNA-fingerprinting ? Who developed this technique ? Add a short note on principle of DNA-fingerprinting.

Or

- Define Sex Determination. How is it determined in humans and birds ?