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3575 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION APRIL 2021

Zoology

ZOL 4C 04T—GENETICS AND IMMUNOLOGY

me : Two Hours Maximum : 60 Marks

Section A

Answer at least **eight** *questions.*

Each question carries 3 *marks.*

All questions can be attended.

Overall Ceiling 24.

1. What is euphenics ?
2. What are sex mosaics ?
3. What are pseudogenes ?
4. What is reverse transcription ?
5. Write a brief note on ELISA.
6. What is karyotyping ?
7. What are haptens ?
8. What is RIA ? Write its applications.
9. What are split genes ?
10. Mention any *two* enzymes and their role in recombinant DNA technology.
11. What are vaccines ? Give an example.
12. What is polygenic inheritance ? Give an example.

(8 × 3 = 24 marks)

Turn over

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Section B

Answer at least **five** *questions.*

Each question carries 5 *marks.*

All questions can be attended.

Overall Ceiling 25.

13. Give a brief description of cloning vectors.
14. What is genetic code ? Write its characteristics.
15. Describe the genetic cause and symptoms of sickle cell anaemia.
16. Briefly describe the major autoimmune diseases.
17. Give a brief note on different types of cancer.
18. Write a note on chromosomal basis of sex determination.
19. Give an account on immune-deficiency diseases.

(5 × 5 = 25)

Section C

Answer any **two** *question.*

Each question carries 11 *marks.*

20. Describe the structure and diversity of antibodies.
21. Write an essay on sex-linked inheritance.

(1 × 11 = 11)

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