

D 50718

(Pages : 2)

Name.....

Reg. No.....

FIFTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, NOVEMBER 2023

Zoology

ZOL 5B 07T—BIOTECHNOLOGY MICROBIOLOGY AND IMMUNOLOGY

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A

I. Short answer questions. Each question carries 2 marks.

- 1 What are oncogenic viruses?
- 2 What is recombinant Insulin ?
- 3 Write briefly on prochlorophytes.
- 4 What are monocytes and macrophages ?
- 5 What are epitopes ?
- 6 What is pasteurization ?
- 7 Comment on agglutination-inhibition reaction.
- 8 What is bioremediation ?
- 9 What do you mean by Bioleaching ?
- 10 What are exogenous antigens ?
- 11 Distinguish between viroids and prions.
- 12 Mention the applications of Bacteriophages.
- 13 What are adjuvants ? Explain Freund's adjuvant.
- 14 What is whooping cough ? What is the causative organism ?
- 15 Give an account of pBR322.

(Ceiling : 25 marks)

Section B

II. Paragraph questions. Each question carries 5 marks.

- 16 Give an account of vaccines and therapeutic agents in treatment.
- 17 What is Myasthenia Gravis ?
- 18 Give an account of culture preservation techniques.

Turn over

- 19 Write an account on SCID.
- 20 Explain the uses of RFLP and RAPD.
- 21 Give a brief account of any two protozoan diseases in human being.
- 22 Distinguish between dermatomycosis and opportunistic mycosis
- 23 What is Xenotransplantation ?

(Ceiling: 3)

Section C

III. Essay questions. Answer any *two* questions.

- 24 Give an account of rDNA technology and the enzymes involved in it.
- 25 Illustrate the structure of immunoglobulin. Briefly explain the classification and
- 26 Give an account of Molecular markers and their uses.
- 27 Explain the industrial applications of microorganisms.

(2 × 10 = 20)