

M.Sc. DEGREE EXAMINATION, MARCH/APRIL 2020.

FOURTH SEMESTER

Zoology

Paper II — TOXICOLOGY AND PHARMACOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — ($5 \times 3 = 15$ marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Biomagnification.
2. Absorption of toxicants.
3. Organophosphates.
4. III effects of mercury in humans.
5. Maximal effect of a drug.
6. Lethal dose.
7. Analgesics.
8. Histamines.

PART B — ($4 \times 15 = 60$ marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write an essay on bioaccumulation and biotransformation of toxins in living organisms.

Or

10. What are teratogens? Write their effects on mammalian development.

11. Explain types of radiation and their hazards.

Or

12. Write about cadmium toxicity in living organisms and describe how it damages different systems.

13. What are the four steps of pharmacokinetics of a drug.

Or

14. Write an essay on response of cells to drugs.

15. Describe the mechanism of antipyretics in reducing pyrexia.

Or

16. Write an essay on the role of pharmacological agents in allergic diseases.

