

2021

## ZOOLOGY — HONOURS

## Fifth Paper

## (Unit - II)

Full Marks : 50

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*Answer **any ten** questions.

1. State the mechanistic action of Cholera toxin. What is Shigelliosis? 4+1
  2. What is Gram-positive and Gram-negative bacteria? Add a short note on Pasteurization method. 2+3
  3. What is Amoebiasis? State the control mechanism of this disease. 2+3
  4. What are Paratenic host and Reservoir host? What do you mean by Molecular Mimicry? 3+2
  5. What are the differences between benign and malignant malaria? What is signet ring? 3+2
  6. Add a note on Microfilarial periodicity of *Wuchereria bancrofti*. 5
  7. What is the infective stage of *Ascaris* sp? State some characters of it. What is Loeffler's syndrome? 1+2+2
  8. Why the larval stages of *Fasciola* sp are considered to be polyembryonic? What is the difference between Hard tick and Soft tick? 3+2
  9. State briefly the life cycle of *Leishmania* sp. What is PKDL? 4+1
  10. What are the differences between Innate and Adaptive immunity? What is J chain? 3+2
  11. What are Freund's complete and Freund's incomplete Adjuvants? State the mechanism of Adjuvant action. 3+2
  12. What are the differences between the following :
    - (a) Isotype, Allotype and Idiotype
    - (b) Monoclonal and Polyclonal antibody? 2½×2
  13. State briefly the classical pathway of Complement activation. What do you mean by Opsonization? 4+1
  14. What are Epitope and Paratope? What do you mean by HLA? 3+2
  15. What is APC? How Antigen is being processed and presented by an APC? 1+4
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