

M.Sc. Examination, 2019

Semester-IV

Zoology

Paper – MZOT-402(vi)

(Parasitology-II)

Time: 4Hours

Full Marks: 80

Questions are of value as indicated in the margin.

Answer **any eight** questions.

1. Discuss in brief the host – mediated Th2 responses against the infective stage of lymphatic filariasis. Mention in brief immune evasion mechanism in *Wuchereria bancrofti*. 5+5=10
 2. Write in brief the cell mediated and humoral immune responses against leishmaniasis. 5+5=10
 3. Discuss in brief the cell mediated and humoral immune responses in malaria. 5+5=10
 4. Comment on the immune evasion mechanism in *Schistosoma* sp. 10
 5. What is VSG? Discuss the expression of VSG gene in *Trypanosomes* sp. both in vector and human host. 2+8=10
 6. Define chemotherapeutic index. Explain “Energy metabolism and neuro-muscular co-ordination are potential drug targets in helminths”. 2+8=10
 7. Name the different antimalarial drugs. Discuss the mechanism of action of the most commonly used antimalarial drug. Add a note on its resistance to the pathogen. 2+6+2=10
 8. Describe in brief the role of helminth secreted proteinaceous products during the early parasite host invasion. 10
 9. Discuss cysteine enriched proteinous induction of Th2 response and modulation of CD4 expression in helminth host interaction. Add a note on the function of cystatins. 6+4=10
 10. Describe the principle of PCR. Discuss in brief its protocol. Add a note on the significance of this method in medical parasitology. 2+5+3=10
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