

QP Code: 23/PT/14/VIIIA

**POST-GRADUATE COURSE**

**Term End Examination — June, 2023/December, 2023**

**ZOOLOGY**

**Paper-8A : PARASITOLOGY AND PUBLIC HEALTH**

Time : 2 hours ]

[ Full Marks : 50

Weightage of Marks : 80%

**Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.**

1. Answer *two* questions : 9 × 2 = 18
- a) What is Kala-azar ? Describe the morphology and life-cycle of the causative organism of Kala-azar. Add a note on its pathogenicity. 2 + 5 + 2
- b) What is monoclonal antibody ? Describe the technique of preparation of monoclonal antibody. Mention its importance in clinical parasitology. 2 + 5 + 2
- c) What do you mean by antibody-antigen reaction ? Explain the process with suitable example. 2 + ( 5 + 2 )
- d) What is Zoonosis ? Classify zoonosis on the basis of reservoir host and type of life-cycle with suitable examples. 2 + 7
2. Answer *three* questions : 6 × 3 = 18
- a) State the causative organism, symptoms and control measures of the following diseases :
- (i) Bird flu (ii) Coccidiosis (iii) Foot and mouth disease. 2 + 2 + 2
- b) Describe the morphology and life-cycle of sandfly. State its role in the transmission of human diseases. 3 + 3

**TE/PG(TH)10164**

[ Turn over

- c) Write a short note on the epidemiology of malaria. 6
- d) What is antibody or immunoglobulin ? Describe the molecular structure of a typical immunoglobulin with suitable diagram. 2 + 4
- e) Give an idea on socio-economic importance of parasitic zoonosis. Mention the impact of parasitic zoonosis on the host. 3 + 3
- f) What is bancroftian filariasis, dirofilariasis and Ozzard's filariasis ?  
2 + 2 + 2
3. Answer *two* questions : 4 × 2 = 8
- a) Describe the life history stage of *Entamoeba histolytica* with diagram.
- b) State the structure and function of Eosinophils and Basophils.  
2 + 2
- c) What is Precipitation ? State its role in clinical parasitology. 2 + 2
- d) What is Dengue fever ? How is it transmitted ? State two symptoms of the disease. 1 + 1 + 2
4. Answer *two* questions : 3 × 2 = 6
- a) Describe the histological structure of spleen with suitable diagram.  
2 + 1
- b) State the structure and functions of dendritic cells. 2 + 1
- c) Distinguish between male and female hookworms *Ancylostoma duodenale*.
- d) Mention the importance of myiasis in the medical and forensic science.

---

---