

QP Code: 22/PT/14/VIIIA

**POST-GRADUATE COURSE**

**Term End Examination — June, 2022/December, 2022**

**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) Name the causative organism of PAM. Describe its life-cycle stages and pathogenicity caused by the organism. 1 + 5 + 3
  - b) What is Myiasis ? Classify myiasis on the basis of the sites infected. 2 + 7
  - c) Describe the ELISA technique. Mention different types of ELISA. State the utility of ELISA in clinical parasitology. 3 + 3 + 3
  - d) What is antigenic variation ? State the molecular basis of antigenic variation in African trypanosomes. 2 + 7
2. Answer *three* questions : 6 × 3 = 18
  - a) Draw and describe the trophozoite and cystic stage of *Giardia intestinalis*. 3 + 3
  - b) Give an idea on different viral, bacterial and protozoan diseases and their control measures in live stocks. 3 + 3
  - c) Briefly describe the B-cell and T-cell with diagram and mention their functions. 4 + 2

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- d) What is obligatory myiasis ? Cite two examples. State the role of myiasis in medical and forensic science.  $2 + 2 + 2$
- e) Write a short note on epidemiology of Filariasis.
- f) Describe the general morphology of Flea. State its role in transmission of human diseases.  $2 + 4$
3. Answer *two* questions :  $4 \times 2 = 8$
- a) What is bird flue ? State the causative organism, symptoms and control measures of bird flu.  $1 + 1 + 2$
- b) Describe the structure of IgG.
- c) Describe the structure and function of NK cells.  $2 + 2$
- d) State the economic importance of parasitic zoonosis.
4. Answer *two* questions :  $3 \times 2 = 6$
- a) Define Propagative, cyclopropagative and cyclical vectors.  $1 + 1 + 1$
- b) Describe the histological structure of the thymus gland with suitable diagram.  $2 + 1$
- c) Distinguish between Anthroozoonosis and Zooanthroponosis with suitable examples.
- d) Give an idea on the 'Ranikhet' disease and mention its control measures.  $2 + 1$
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