

**SUBJECT CODE NO: - FF-6660**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**M.Sc. (Sem-III) (Zoology)**  
**Examination January-2023**  
**Group B Elective A - Applied Parasitology-I ZOO-310**

[Time: 3:00 Hours]

[Max. Marks: 80]

N. B

Please check whether you have got the right question paper.

- i) Draw diagram wherever necessary.
- ii) Part – 'A' is compulsory have 20 mark.
- iii) Part – 'B' having of question attempt any five question.

**PART – A**

Q1]

1. Which of the following is not an adaptation seen in parasite.
  - (a) Loss of unnecessary sense organ
  - (b) Presence of adhesive organ
  - (c) Low reproductive capacity
  - (d) Loss of digestive system
2. For the host, the most dangerous relationship with another organism is
  - (a) Symbiosis
  - (b) Commensalism
  - (c) Parasitism
  - (d) Mutualism
3. The term ectoparasites includes
  - (a) Some viruses
  - (b) Some bacteria
  - (c) Some protozoa
  - (d) Some insect
4. Use of microorganism for the control of parasites is called as \_\_\_\_\_
  - (a) Biological Control
  - (b) Chemical Control
  - (c) Strategic deworming
  - (d) Chemotherapy
5. Coccidiosis is an infection of \_\_\_\_\_
  - (a) Brain
  - (b) Intestine
  - (c) Eyes
  - (d) Tongue
6. Tick fever is also known as \_\_\_\_\_
  - (a) Fascioliasis
  - (b) Ascariasis
  - (c) Babesiosis
  - (d) Coccidiosis

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7. Which of the following is responsible for killing parasites?
  - (a) Neutrophils
  - (b) Natural killer cell
  - (c) Eosinophils
  - (d) Macrophages
  
8. Which of the following is Medically important Parasite.
  - (a) Seng sp.
  - (b) Lytocestus sp.
  - (c) Fascida sp.
  - (d) Lytocestoides
  
9. Which of the following cells of the immune system do not perform phagocytosis?
  - (a) Macrophage
  - (b) Neutrophil
  - (c) Eosinophil
  - (d) Basophil
  
10. Which of the following immune cell are effective in destroying intracellular pathogen?
  - (a) B – cell
  - (b) Antibodies
  - (c) T – cytolytic cell
  - (d) T – helper cell

**PART – B**

- Q2] What is parasitism? Explain the origin and evolution of parasitism. 12
- Q3] Discuss the life cycle and pathogenicity of protozoan parasites in poultry birds. 12
- Q4] Describe in detail the Transmission and Pathogenicity of Medically important parasite with a suitable example. 12
- Q5] Explain in detail antimicrobial molecules and pattern recognition receptors (PRR). 12
- Q6] Describe the energy metabolism in parasitic Protozoa. 12
- Q7] Discuss in detail the parasitic adaptation and their advantages in parasitic life. 12
- Q8] Write short notes on (any two) 12
- a) Parasitic reproduction
  - b) Economic importance of parasite
  - c) Functions of antibodies in host defence