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**SUBJECT CODE NO: - SS-6763**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**M.Sc. (Zoology) (Sem-III)**  
**Examination May / June - 2023**  
**Group B Elective Paper A - Applied Parasitology-I ZOO-310**

[Time: 03:00 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B

- 1) Question paper is divided in 'PART-A' and 'PART-B'.
- 2) 'PART-A' is compulsory.
- 3) Attempt any FIVE questions from the 'PART-B'.
- 4) Draw well labelled diagrams wherever necessary.

**Part A**

Q.1 Attempt the following multiple-choice questions:

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1. Which of the following is the example of Commensalism?
  - a. When sucker fish attached to shark for the transportation
  - b. When snake kills Rat
  - c. When the parasite lives on other organism body
  - d. Non-of them
2. Which of the following is the range of environmental conditions in which each of the species survives?
  - a. Real niche   b. Habitory niche   c. Optimal niche   d. Fundamental niche
3. Which of the following is a description for 'descriptive epidemiology'?
  - a. Examining the incidence of disease in relation to person, place and time
  - b. Identifying the associations between disease and causes
  - c. Intervention to change exposure to the factor being studied
  - d. Actions to reduce exposure to factors which impact on health
4. Glycolysis is a biological process that...
  - a. Builds glucose molecules from smaller pyruvate molecules.
  - b. Splits one glucose molecule into two pyruvate molecules.
  - c. Requires oxygen.
  - d. Does not require enzymes.

5. Which of the following is not an end parasite?
  - a. Liver fluke
  - b. Tapeworm
  - c. Ticks
  - d. Roundworm
6. Gene mapping provides useful information about chance of
  - a. Inheritance of disorders
  - b. Inheritance of genes
  - c. Inheritance of recessive gene
  - d. Inheritance of dominant gene
7. Antigen binding sites are present in
  - a. Fab regions of an antibody
  - b. F<sub>c</sub> region of an antibody
  - c. Only in the light chain
  - d. Only in the heavy chain.
8. Antibodies are \_\_\_\_\_
  - a. Prostaglandins
  - b. steroids
  - c. lipoproteins
  - d. glycoproteins
9. Division of immune responses into innate and adaptive components is NOT determined by
  - a. Kinetics of onset
  - b. Location in the body
  - c. Specificity of recognition
  - d. Development of memory
10. One form of symbiosis is \_\_\_\_\_
  - a. Commensalism
  - b. Pearl
  - c. Sea anemone
  - d. Ants

### Part B

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|--|----|
| Q.2 Describe the Economic importance of parasites.                 | 12 |
| Q.3 What are the Self & Nonself recognition in adaptive responses? | 12 |
| Q.4 Write the genetic exchange in malaria parasite.                | 12 |
| Q.5 Describe in detail the Macro & Micro epidemiology.             | 12 |
| Q.6 Give an account on the vectors parasites.                      | 12 |
| Q.7 Explain the Innate defence mechanism.                          | 12 |
| Q.8 Write a note on following (any two)                            | 12 |
| 1. Pathogen Associated Molecular Patterns (PAMPs)                  |    |
| 2. Parasites Ecological Niche.                                     |    |
| 3. Gene Mapping  |    |