



Enrollment No.....

## Faculty of Science

End Sem (Even) Examination May-2022

FS3EG05 Zoology

Programme: B.Sc. (FS)

Branch/Specialisation: Forensic  
Science**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Binomial classification system was proposed by- **1**  
 (a) Gregor Mendel (b) Carl Linnaeus  
 (c) Charles Darwin (d) Louis Pasteur
- ii. Which of these is not a species of Plasmodium- **1**  
 (a) Falciparum (b) Vivax  
 (c) Ovale (d) Hepatica
- iii. Which of these phylum name means “jointed foot”? **1**  
 (a) Arthropoda (b) Mollusca  
 (c) Annelida (d) Coelenterata
- iv. Zoological name of star fish is- **1**  
 (a) Ophiothrix (b) Antedon (c) Asterias (d) Echinus
- v. Balanoglossus belongs to which of these groups- **1**  
 (a) Cephalochordata (b) Uropchordata  
 (c) Hemichordata (d) Vertebrata
- vi. Which of these is a class of vertebrate- **1**  
 (a) Amphibia (b) Tunicata (c) Insecta (d) Gastropoda
- vii. Which of these is an ectoparasite- **1**  
 (a) Lice (b) Mites (c) Mosquito (d) All of these
- viii. Which of these is a type of parasite- **1**  
 (a) Obligatory (b) Facultative  
 (c) Both (a) and (b) (d) None of these
- ix. Which of these is a protozoan parasite? **1**  
 (a) Fasciola (b) Hiudinaria (c) Trypanosoma (d) All of these
- x. The disease caused by Leshmania is- **1**  
 (a) Flu (b) Malaria (c) Leshmaniasis (d) None of these

P.T.O.

- Q.2 i. Define Taxonomy. Who is regarded as father of Taxonomy? **2**  
 ii. Expand the term ICZN. State any four rules/principles of zoological nomenclature. **3**  
 iii. Explain life cycle of plasmodium. **5**  
 OR iv. What is the unique character of Platyhelminthes? Classify phylum Platyhelminthes upto classes. Give two examples of representative animals of this phylum. **5**
- Q.3 i. Name any two classes of phylum Annelida. **2**  
 ii. Compare between Nereis and Heteronereis. Draw diagram of Nereis also. **3**  
 iii. Describe the external features of Asterias. **5**  
 OR iv. Classify Prawn upto class. Name the body divisions of Prawn. Draw only neat and labelled diagram showing external features of Prawn. **5**
- Q.4 i. Give two examples each of Cephalochordata and Urochordata. **2**  
 ii. State general characters of Hemichordata. Give one example also. **3**  
 iii. Differentiate between poisonous and non-poisonous snakes. **5**  
 OR iv. Describe parental care in amphibians. **5**
- Q.5 i. Define parasite. What do you mean by ecto-parasite and endo-parasite? **2**  
 ii. Give three examples of parasites with name of its host. **3**  
 iii. Classify parasite. Give one example of each type. What are different types of hosts? Describe it. **5**  
 OR iv. Write a note on pathological analysis of parasites. **5**
- Q.6 Attempt any two:  
 i. Explain life cycle of Leshmania donovani and treatment of disease caused. **5**  
 ii. Explain life cycle of Giardia intestinalis and treatment of disease caused. **5**  
 iii. Describe life cycle of Trypanosoma gambiense and treatment of disease caused. **5**

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### Marking Scheme FS3EG05 Zoology

Q.1	i)	Binomial classification system was proposed by :	1
		b) Carl Linnaeus	1 Mark
	ii)	Which of these is not a species of Plasmodium:	1
		d) hepatica	1 Mark
	iii)	Which of these phylum name means “jointed foot”	1
		a) Arthropoda	1 Mark
	iv)	Zoological name of star fish is :	1
		c) Asterias	1 Mark
	v)	Balanoglossus belongs to which of these groups :	1
		c) Hemichordata	1 Mark
Q.2	vi)	Which of these is a class of vertebrate :	1
		a) Amphibia	1 Mark
	vii)	Which of these is an ectoparasite :	1
		d) All of the above	1 Mark
	viii)	Which of these is a type of parasite :	1
		c) Both (a) and (b)	1 Mark
	ix)	Which of these is a protozoan parasite	1
		c) Typanosoma	1 Mark
	x)	The disease caused by Leshmania is :	1
		c) Leshmaniasis	1 Mark
Q.2	i.	Definition of Taxonomy :	1 Mark
		Father of Taxonomy is “Aristotle” :	1 Mark
	ii.	ICZN stands for “International Code of Zoological Nomenclature”	3
		Four rules/principles of ICZN	0.5 Mark each (0.5 Mark*4)
	iii.	Labelled diagram of life cycle : Explanation of life cycle :	2 Marks 3 Marks
OR	iv.	Unique character of Platyhelminthes is presence of “Flame cells”	5
		Classification – Names of all classes of phylum Platyhelminthes –	1 Marks 2 Marks
		Two Examples of phylum	1 Mark each (1 Mark*2)
Q.3	i.	Names of any two classes	1 Mark each (1 Mark*2)

	ii.	Points of comparison	1 Mark	3
		Labelled diagram of Nereis	2 Marks	
	iii.	Labelled diagram of Asterias	2 Marks	5
		Description of external features	3 Marks	
OR	iv.	Classification of Prawn upto class	1 Mark	5
		Names of body division	1 Mark	
		Labelled diagram showing external features	3 Marks	
Q.4	i.	2 examples of Cephalochordate	0.5 Mark each (0.5 Mark*2)	2
		2 examples of Urochordata	0.5 Mark each (0.5 Mark*2)	
	ii.	General characters of Hemichordata : One example of Hemichordata :	2 Marks 1 Mark	3
	iii.	Points of comparison	5 Marks	5
OR	iv.	Defintion of parental care	1 Mark	5
		Explanation of parental care in Amphibia	4 Marks	
Q.5	i.	Definition of parasite	1 Mark	2
		Definition of ectoparasite	0.5 Mark	
		Definition of endoparasite	0.5 Mark	
	ii.	3 examples of parasite	0.5 Mark each (0.5 Mark*3)	3
		3 examples of host	0.5 Mark each (0.5 Mark*3)	
	iii.	Classification of parasite Example of each type	1 Mark 2 Marks	5
		Description of types of host	2 Marks	
	OR	iv.	Description of pathological analysis	5 Marks
Q.6		Attempt any two		
	i.	Diagram of life cycle : Explanation of life cycle	1 Mark 2 Marks	5
		Treatment of disease	2 Marks	
	ii.	Diagram of life cycle : Explanation of life cycle	1 Mark 2 Marks	5
		Treatment of disease	2 Marks	
	iii.	Diagram of life cycle : Explanation of life cycle	1 Mark 2 Marks	5
		Treatment of disease	2 Marks	

