MSZ First Semester Animal Diversity, Taxonomy and Biosystematics (MSZ-01)

Duration: 3 Hrs Full Marks - 70

PART B: Descriptive

Duration: 2 Hrs 40 minutes Marks - 50

1. Answer the following questions (Any five): $2 \times 5 = 10$

- a) Name the different respiratory pigments.
- b) Write four significances of artificial parthenogenesis.
- c) How did chordate originate?
- d) Write about types of asexual reproduction in Ectoprocta.
- e) What is taxonomic key? Define with examples.
- f) Differentiate between taxonomy and classification.
- g) Write a brief note on body organization of amoeba.
- 2. Answer the following questions (Any five) $3 \times 5 = 15$
 - a) Describe in brief about the Crustacean mode of feeding.
 - b) What is a hermaphrodite?
 - c) Define parthenogenesis. What are the different types of parthenogenesis?
 - d) Write in briefly about the organs of respiration in organisms.
 - e) Write a note on the history of classification.
 - f) What is hierarchy of categories in taxonomy? Define with examples.
 - g) Write a short note on ICZN (International code of Zoological nomenclature).

- a) What are the different layers of vertebrate integumentory system? Explain briefly.
- b) Write a short note on Edysone of Juvenile hormone.
- c) What is Sol Gel theory? Discuss.
- d) What is the need of biological classification? Write on the different types of biological classification.
- e) What are chemotaonomy, cytotaxonomy, numerical and molecular taxonomy. Elaborate on each.
- f) Discuss on the different species concepts.
- g) Discuss the general characteristics of protochordata, eurochordata and cephalochordata.

Marks - 20

MSZ

First Semester

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PART A: Objective

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Duration: 20	minutes	

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1. Looping movement is found in			
a) Protozoa	b) coelenterate		
c) Platyhelminthes	d) None of the above		
2. Artificial parthenogenesis caus	ed by-		
	b) Maltose		
c) Warm water	d) All of the above		
3. Germination is the process of			
a) Sexual reproduction	b) Asexual reproduction		
c) Partenogenesis	d) All of the above		
1 Carana ar yuhaal argan is the ma	est stuilting factoring of		
4. Corona or wheel organ is the most striking feature ofa) Protozoab) Porifera			
c) Rotifera	d) None		
5. Euglena moves with the help of	d) None		
	h) Cilia		
a) Pseudopodia	b) Cilia		
c) Flagella	d) All of the above		
6. In insects excretion is carried ou	at by		
a) Rectum & Malphigian tubul	e b) Hemocoel		
c) Remocoel & Rectum	d) Hindgut and Midgut		
7. What is the "angle of attack" in the	flying mechanics?		
a) Angle made by butterflies w	while flying		
b) Angle of birds wing with re			
c) Angle made between the lim			
d) None of Theses			
8. Phylogenetic classification is bas			
a) Artificial characters	b) Ancestral characters		
c) Both	d) none of these		

9.	Binomial nomenclature consists of two names –		
	a) Phylum and species	b) Class and species	
	c) Genus and species	d) species & subspecies	
10.	The father of taxonomy is		
	a) Benthum- Hooker	b) Aristotle	
	c) Carolus Linnaeus	d) Engler	
11.	. Animals are characterised by		
	a) Absence of cell wall	b) Absence of Chlorophyll	
	c) active locomotion	d) All these	
12.	Who introduced binomial nomencla	uture?	
	a) Hutchinson	b) Benthum	
	c) C. Linnaeus	d) Prantle	
13.	Which of the following group conta	ins the most closely related organisms'?	
	a) Class	b) Phylum	
	c) Order	d) Genus	
14.	Protozoans are		
	a) Diploblastic	b) triploblastic	
	c) lack germ layers	d) single germ layered	
15.	Which of the following is not a taxonomical aid?		
	a) Zoological gardens	b) Taxonomic key	
	c) Bacteria & viruses	d) Herbarium	
16.	Flatworms are a) Coelomate	b) Acoelomate	
	c) Pseudocoelomate	d) None of the above	
17.	Prothoracicotropic hormone is the precursor for		
18.	Feeding mechanism in crustacean is called		
19.	Haploid parthenogenesis is also known as		
20.	Mode of nutrition in protozoa is		
	a) Holozoic	b) Somersaulting	
	c) Both	d) filter feeding	