(DZOO01)

M.Sc. DEGREE EXAMINATION, DECEMBER 2019.

Zoology

First Year

SYSTEMATICS AND ANATOMY OF INVERTEBRATES

Time: Three hours Maximum: 70 marks

Answer ALL questions.

1. (a) Describe the various types of reproductive processes in protozoa.

Or

- (b) Write short notes:
 - (i) Classification of Porifera
 - (ii) Development in sponges.
- 2. (a) Give a detailed account on parasitic adaptations of platyhelmintnes.

Or

- (b) Write short notes:
 - (i) Polymorphism in coelenterates
 - (ii) General organisation in nemathelmintnes.
- 3. (a) Describe the general organisation of phylum annelida.

Or

- (b) Write short notes:
 - (i) Trochophore larve
 - (ii) Classification of arthropoda.
- 4. (a) Give an account on the larval forms in echinoderms.

- (b) Write short notes:
 - (i) General organization of mollusca
 - (ii) Classification of echinodermata.

5.	(a)	Describe	the general	organization	of Ectoprocta.
υ. (a	Describe	une generar	urgamzanum	or Ectoprocta.

- (b) Write short notes:
 - (i) Sipuncula
 - (ii) Rotifera.

(DZOO02)

M.Sc. DEGREE EXAMINATION, DECEMBER 2019.

First Year

Zoology

SYSTEMATICS AND ANATOMY OF CHORDATES AND GAMETE BIOLOGY

Time : Three hours ${\bf Maximum: 70 \ marks}$ ${\bf Answer \ ALL \ questions.}$

1. (a) Describe the general characters of phylum chordates.

Or

- (b) Write short notes on:
 - (i) Urochordata
 - (ii) Cphalo chordata.
- 2. (a) Give a detailed account on parental care in fishes.

Or

- (b) Write short notes on:
 - (i) Poisonous snakes
 - (ii) Classification of amphibia.
- 3. (a) Give a detailed account on common birds of India.

Or

- (b) Write short notes on:
 - (i) Archaeopteryx
 - (ii) Flightless birds.
- 4. (a) Give an account on South Indian mammals.

- (b) Write short notes on:
 - (i) Aquatic mammals
 - (ii) General characters of mammals.

5. (a) Give an account on Vitelogenesis.

- (b) Write short notes on:
 - (i) Sperm
 - (ii) Ovary.

M.Sc. DEGREE EXAMINATION, DECEMBED 2010

		DECEMBER 2019.	
		First Year	
		Zoology	
		CELL BIOLOGY, GENETICS AND EVOLUTION	
Time: Three hours		Maximum: 70 marks	
		Answer ALL questions.	
1. (a)	(a) Give an account on Mitochondria.		
		Or	
(b)	hort notes on :		
	(i) Pl	asma membrane	
	(ii) Go	olgi complex.	

2. Give an account on protein synthesis. (a)

Or

- (b) Write short notes on:
 - t RNA (i)
 - (ii) DNA structure.
- 3. Give an account on abnormalities of chromosomes.

Or

- (b) Write short notes on:
 - (i) Meiosis
 - (ii) Giant chromosomes.
- 4. (a) Give an account on sex linked inheritance.

- (b) Write short notes on:
 - (i) Multiple alleles
 - Interaction of genes.

5.	(a)	What is evolution? Give an account on theories of evolution.
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- (b) Write short notes on:
 - (i) Isolation
 - (ii) Hardy Weinberg law.

M.Sc. DEGREE EXAMINATION, DECEMBER 2019.

First Year

Zoology

ANIMAL ECOLOGY AND WILDLIFE

Time: Three hours Maximum: 70 marks

Answer ALL questions.

1. (a) Give an account on thermal stratification of natural water bodies.

Or

- (b) Write short notes on:
 - (i) Life supporting properties of water
 - (ii) Structure and functions of Ecosystem.
- 2. (a) Give an account on biogeochemical cycle of nitrogen.

Or

- (b) Write short notes on:
 - (i) Concept of productivity
 - (ii) Food web.
- 3. (a) Give an account on concepts of habitat and ecological niche.

Or

- (b) Write short notes on:
 - (i) Mutualism
 - (ii) Allelopathy.
- 4. (a) Give an account on energy partitioning and optimization.

((b)	Write	short	notes	οn	
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- (i) Basic concepts of rates
- (ii) K-selection.
- 5. (a) Give an account of IUCN classification of rate animals.

- (b) Write short notes on:
 - (i) Hot spots
 - (ii) Wildlife trade.