1. Fill in the blanks:

Linnaeus.

1 SEM TDC ZOO M 1 (N/O)

2018

(November)

ZOOLOGY

(Major)

Course: 101

Full Marks: 48

Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

(New Course)

(Non-chordate Diversity, Systematics and Evolution)

(a)	Volutin granules are found in
(b)	is the first phylum to illustrate the organ system.
(c)	Minute scales are present in the wings of the insects of the order
(d)	Animals, that bear spines on their skin, are grouped as phylum
(e)	In the hierarchy of classification only

___ categories were used by Carolus

(Turn Over)

1×5=5

1.

2.	Write short notes on any <i>two</i> of the following: $3\frac{1}{2}\times2=7$	
	following: 3½×2=7 (a) Hierarchy of classification (b) Numerical taxonomy (c) Cladistic classification (d) Type concept in zoological nomenclature	
3.	What is cnidoblast? Write about the different types of cnidoblast and mode of action of it. 1+4+4=9	
	0r	
	Explain different modes of locomotion in Protozoa.	
4.	What is septal nephridium? Where is it located and what physiological function does it perform? Describe the structure of septal nephridium of <i>Pheretima</i> . 1+1+1+6=9 Or	
	Classify Nemathelminthes up to order with examples.	
5.	Give an account of mouthparts in insects with suitable diagrams.	
	Prepare a note on vision of arthropods.	
6.	modes of respiration found in Pila. 2+7=9 Or	
	What is water vascular system? Discusswater vascular system in starfish. 1+8=9	
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(Old Course)

(Animal Diversity—I and Systematics) ANIMAL DIVERSITY—I (NON-CHORDATE)

(Marks: 32)

1.	Fill in the blanks: 1×3=3
	(a) In Protozoa, different species of the class bear cilia.
	(b) Fasciola belongs to the class
	(c) Animals having mesoglea in their body wall belong to the phylum
2.	Write on the following (any two): $4\times2=8$
	(a) General characters of Coelenterata
	(b) General characters of the class Crustacea
	(c) General characters of Mollusca
	(d) General characters of Echinoderm
3.	What is polymorphism? Describe the polymorphism in coelenterates. 1+6=7
	Or
	Discuss about the skeletal materials in Porifera.

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(Turn Over)

4.	Describe the structure and function of septal nephridium of <i>Pheretima</i> . 7
	Or
	Write a note on excretion in Arthropoda. 7
5.	What is torsion? Write about the shell diversity in Mollusca. 1+6=7 Or
	Write about the affinities of echinoderm larva.
	SYSTEMATICS
	(Marks: 16)
6.	Fill in the blanks: 1×2=2
	(a) In hierarchy of classification categories are commonly used.
	(b) A group of individuals having interbreeding capacity is known as
7.	Why is zoological nomenclature needed? Write four specific rules of zoological
	nomenclature. 2+4=6
8.	Write short notes on (any two): $4\times2=8$
	(a) Molecular taxonomy
	(b) Cytotaxonomy
	(c) Numerical taxonomy
	(d) Linnaean hierarchy

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