

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034****B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY****FIRST SEMESTER – APRIL 2023****UAZ 1301 – ANIMAL DIVERSITY - I**

Date: 08-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

SECTION A**Answer ALL the Questions****1. Define the following (5 x 1 = 5)**

a)	Hox genes in animals	K1	CO1
b)	Taeniasis	K1	CO1
c)	Aestivation	K1	CO1
d)	Vocal sac in frog	K1	CO1
e)	Homolecithal egg	K1	CO1

2. Fill in the blanks (5 x 1 = 5)

a)	Methods of grouping things according to similarities and differences _____	K1	CO1
b)	Adult worm of <i>Taenia solium</i> lives in _____	K1	CO1
c)	Antennule in prawn functions as _____	K1	CO1
d)	Periodical peeling off of skin of Calotes is called as _____	K1	CO1
e)	_____ eggs contain a thick and hard outermost shell	K1	CO1

3. Match the following (5 x 1 = 5)

a)	Ciliates - protecting the embryo	K2	CO1
b)	Hirudin - capturing sounds	K2	CO1
c)	Slime secretion - anticoagulant	K2	CO1
d)	Pinna – cilia	K2	CO1
e)	Chorion – Pila	K2	CO1

4. True or False (5 x 1 = 5)

a)	Protozoa lack a cell wall	K2	CO1
b)	Leeches inhabit a wide variety of habitations	K2	CO1
c)	There are two types of respiration in apple snail.	K2	CO1
d)	Tympanic membrane functions for the entry or exit of air in frog	K2	CO1
e)	Placenta serves for the transport of nutrients from the mother with those of the embryo	K2	CO1

SECTION B**Answer any TWO of the following in 100 words (2 x 10 = 20)**

5.	Explain the characteristics of tapeworms	K3	CO2
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6.	Illustrate and explain kinds of placenta based on distribution of villi	K3	CO2
7.	Prepare and present the diagrammatic explanation of the extra embryonic membrane in chick	K3	CO2
8.	Write down the morphological structure of <i>Penaeus indicus</i>	K3	CO2
SECTION C			
Answer any TWO of the following in 100 words		(2 x 10 = 20)	
9.	Analyse the functions external anatomy of frog's head	K4	CO3
10.	Classify the feathers of <i>Columba livia</i> with illustrations	K4	CO3
11.	Compare the basic differences between Mollusca and Mchinodermata	K4	CO3
12.	Correlate the details on the life cycle of the round worm with its mode of transmission	K4	CO3
SECTION D			
Answer any ONE of the following in 250 words		(1 x 20 = 20)	
13.	Evaluate the ecology of Hirudinea, its morphology, and uses	K5	CO4
14.	Summarise the classification of chordata eggs with illustrations	K5	CO4
SECTION E			
Answer any ONE of the following in 250 words		(1 x 20 = 20)	
15.	“The life history of Indian white prawn is a boon or pane for economic development”-justify	K6	CO5
16.	Summarise the external organization of <i>Calotes versicolor</i> with illustrations	K6	CO5

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