LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

SECOND SEMESTER – **APRIL 2023**

UAZ 2501 – CHORDATA

Date: 29-04-2023 Dept. No. Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

	SECTION A - K1 (CO1)	
	Answer ALL the Questions	**(10 x 1 = 10)**
1.	**Definitions**	
a)	Anadromous migration	
b)	Heterocercal tail	
c)	Wheel organ	
d)	Endostyle	
e)	Nephridium	
2.	**Fill in the blanks**	
a)	---------- gill bar has excretory pore.	
b)	Ductus botalli is present in----------	
c)	---------- is 5th cranial ganglion.	
d)	Jacobson's organ is found in----------	
e)	Brood pouch is present in ----------	
	SECTION A - K2 (CO1)	
	Answer ALL the Questions	**(10 x 1 = 10)**
3.	**Match the following**	
a)	Snake - Axolotl	
b)	Frog - Syngnathus	
c)	Ave - Rhacophorus	
d)	Fish - Ostrich	
e)	Salamander - Enhydrina	
4.	**True or False**	
a)	Shark has homocercal tail	
b)	Kiwi is a flightless bird	
c)	Archaeopteryx connects Arachnids and birds	
d)	Kangaroo is a marsupial.	
e)	Chironomous is a chiropteran.	
	SECTION B - K3 (CO2)	
	Answer any TWO of the following	**(2 x 10 = 20)**
5.	Explain accessory respiratory organs in fishes.	
6.	Illustrate and explain the structure of various types of feathers.	
7.	Write a note on the cranial nerves of shark.	
8.	Draw a neat labelled diagram of reproductive system of rabbit.	
	SECTION C – K4 (CO3)	

	Answer any TWO of the following	**(2 x 10 = 20)**
9.	Analyse the structural specifications of poison apparatus of snake.	
10.	Classify the different types of eggs.	
11.	Explain jaw suspension in vertebrates.	
12.	Evaluate the parental care in amphibia.	
	SECTION D – K5 (CO4)	
	Answer any ONE of the following	**(1 x 20 = 20)**
13.	Explain in detail the different types of migration in birds.	
14.	Write an essay on dentition of mammals.	
	SECTION E – K6 (CO5)	
	Answer any ONE of the following	**(1 x 20 = 20)**
15.	Summarize the different types of respiration in frog.	
16.	Differentiate poisonous from non-poisonous snakes.	

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