UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE GENERAL DEGREE LEVEL I (SEMESTER II) EXAMINATION - JANUARY/FEBRUARY 2018

		Question	No.	Marks
Subje	ct : Zoology		1	
	e Unit : ZOO 1212 - Chordate Organization and Diversity	Part A	2	
Course			3	
Time	01½ hours		4	
I IIIIC.	O1/2 hours	Part B	5	
Index	No :	T unt B	6	
			7	
Answe	r the Part A and any two questions from Part B.	Assessm	ent	
	e handwriting would be penalized.	Tota		
1. (i).	Mention <u>two</u> main morphological characteristics successful life style of Placoderm fishes.	that	favor	ed the
	successful life style of Placoderm fishes.			
			•••••	
	•••••••••••••••••••••••••••••••••••••••			
(ii).	State two advance features shown by Acanthodii fishes.	hes over	Plac	coderm
		<u>d</u> i noifa		
(iii).	Name the jaw suspension method that can be	seen ar	none	early
	Placoderm fishes and specific feature of it.			,
	•••••••••••••••••••••••••••••••••••••••			••••••

(iv)	. State two adaptations shown by parasitic adult lampreys for the
	successful mode of life.
	eragi 10 maii
	(10 marks
2. (i).	Mention <u>four</u> functions of amphibian skin.
	Lance of the second of the sec
(ii).	Why coloration is important to amphibians?
	Mention three coloration types found in amphibians.
(iii).	Mention three direct nursing (parental care) strategies recorded in order
	Anura with examples.

(1V).	Me	ntion three methods of respiration observed in amphibians.
	••••	
		(10 marks)
2 (1)	D: 66	
3. (i).		erentiate the following traditional divisions at least giving two
	(a).	Agnatha from Gnathostomata
	(b).	Anamniota from Amniota
	(c).	Protochordates from Vertebrates

(ii)	Give three characteristic features of Class Reptilia that contributed to
	the successful concur of land.
(iii)	State the common names of three turtles that visit the coastal beaches of
	Sri Lanka and three land tortoises present in Sri Lanka.
(iv).	Briefly explain how non-venomous snakes kill their prey.
	(10 marks)
4. (i).	Give a brief description of Archaeopteryx.
(-)	are a brief description of Archaeopteryx.

(11).	Name the different types of flight seen among birds, giving one exace each showing the flight type mentioned.	mpl
		•••••
		•••••
(iii).	Explain the two basic means/mechanisms that producer the colouration.	bird
(iv).	Mention the two theories that have been put forward to explain the or	igin
	of bird flight.	
	(10 mar	ks)

<u>Part B</u>: Answer any <u>two</u> questions only.

5.	Write a concise report on 'Lung fishes'.	
	(25 minutes)	(20 marks)
6.	Write an essay on estivation and hibernation of amphibians.	
	(25 minutes)	(20 marks)
7.	Explain why the anapsid reptile living on earth today are co- unique group of vertebrates.	nsidered as a
	(25 minutes)	(20 marks)
3.	Summarize the important features of bird organization that hav	re contributed
	to its successful aerial mode of life.	e contributed
	(25 minutes)	(20 marks)
D.	For the assessment	(20 marks)

UNIVERSITY OF RUHUNA BACHELOR OF SCIENCE GENERAL DEGREE LEVEL I (SEMESTER II) REPEAT EXAMINATION - JANUARY/FEBRUARY 2018

SUBJECT : Zoology Time: 011/2 hours COURSE UNIT: ZOO 1212 - Chordate Organization and Diversity Answer any three (03) questions only. Illegible handwriting would be penalized. Write a concise account on the "swim bladder of fishes". 1. Briefly describe the "Parental care" seen in amphibians. 2. Briefly mention the morphological and locomotory diversity shown by 3. modern reptile groups. Describe the weight reducing and power promoting adaptations in 4. birds.

රුහුණ විශ්වවිදු කලය

සාමානස විදපාවේදි උපාධි පුථම ස්ථල (දෙවන සමාසික) පුනර් පරිකෂණය ජනවාරි/පෙබරවාරි 2018

විෂයය : සත්ත්ව විදු ුව

කාලය : පැය 01½ යි

පාධමාලා ඒකකය : ZOO 1212 – පෘෂ්ඨවංගි සංවිධානය සහ විවිධ**රව**ය

ඕනෑම පුශ්න **තුනකට (03) පමණක්** පිළිතුරු සපයන්න. අපැහැදිලි අත්අකුරු පිළිබඳ වගකිම ශිෂපයා සතුය.

- 1. මත්සසයින්ගේ "ප්ලවන ආශය" (swim bladder) යන මැයෙන් සංකම්ප්ත වාර්තාවක් ලියන්න.
- 2. ඇම්ෆිබියාවන්ගෙ දක්නට ලැබෙන "මව්පිය රැකවරණය" (parental care) කෙටියෙන් විස්තර කරන්න.
- 3. නුතන රෙප්ටිලියා ඛාණ්ඩ පෙන්නුම් කරන රුපිය සහ සංචරන විවිධත්වය කෙටියෙන් සඳහන් කරන්න.
- 4. පක්ෂින්ගේ බර අඩු කර ගැනීම සහ බල ශක්තිය වැඩි කර ගැනීම සඳහා ඇති අනුවර්තන විස්තර කරන්න.