#### B.Sc. ZOOLOGY 2<sup>ND</sup> SEMESTER CHORDATE DIVERSITY, COMPARATIVE ANATOMY & EVOLUTION BSZ-201(M)

Duration: 3 Hrs.

Marks: 70

PART: A (OBJECTIVE) = 20 PART : B (DESCRIPTIVE) = 50

### [ PART-B : Descriptive ]

Duration: 2 Hrs. 40 Mins.

Marks: 50

[ Answer question no. One (1) & any four (4) from the rest ] 1. Write the general features of Branchiostoma. What are the three fundamental chordate characters? 7+3=102. Write note on the process of retrogressive metamorphosis. 10 3. Give a general account of Dipnoi and discuss their amphibian affinities. Draw a comparison between Chondrichthyes and Osteichthyes in a tabular form. 4+6=10 4. Describe the different types of skull found in Reptiles with suitable diagrams. 10 5. Describe the anatomical peculiarities of Sphenodon with justification of its 10 systematic position. 6. What are marsupials? What are their chief differences from Eutheria? Give any two peculiar characters of Prototheria. 2+6+2=10 7. How do the birds navigate and orient during migration? What are the different

types of migration found in birds? What are resident birds? 5+4+1=10

8. What is Neo-Darwinism? Explain the main elements of this theory? 3+7=10 REV-00 BSZ/22/30 2017/06

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## [PART-A: Objective]

<u>Ch</u>	1×20=20						
1.	1. Chordata characters disappear in the adult form of						
	a. Herdmania c. Myzine	b. Petromyzon d. None of the above					
2.	<ul> <li>Which of the following is a feature of <i>Herdmania</i> <ul> <li>a. Notochord only in larval tail</li> <li>b. Notochord in adult adult form</li> <li>c. Notochord is absent</li> <li>d. All of the above</li> </ul> </li> </ul>						
3.	Tunicates are						
	a. Hemichordata c. Urochordata	b. Cephalochordata d. None of the above					
4.	Amphioxus belongs to						
	a. Urochordata c. Vertebrata	b. Cephalochordata d. None of the above					
5.	Skull is present in						
	a. Vertebrata c. Urochordata	b. Cephalochordata d. None of the above					
6.	Acorn worms belong to Class						
	a. Enteropneusta c. Pterobranchia	<ul><li>b. Plactosphoroidea</li><li>d. None of the above</li></ul>					
7.	Scales in Chondrichthyes are  a. Cosmoid c. Ganoid	b. Placoid d. Ctenoid					
8.	The function of crop is						
	a. To produce enzyme c. To digest the food	<ul><li>b. To store food</li><li>d. To absorb the food</li></ul>					
9.	Neotany is found in the larva of						
	a. Hylarana c. Ichthyophis	b. Salamandra d. Necturus					

10. Persistence of larval characters is known as		
a. Neogenesis	b. Paedogenesis	
c. Parthenogenesis	d. Paedomorphosis	
11. Copulatory organs are absent in		
a. Gecko	b. Sphenodon	
c. Snake	d. Tortoise	
12. Skin of lizard contains		
a. Horny scales	b. Horny scutes	
c. Plates	d. All the above	
13. Interclavicle in reptile is		
a. H shaped	b. W shaped	
c. T shaped	d. A shaped	
*		
14. Embryonic membranes present in reptiles	are	
a. Amnion and Chorion		
b. Chorion and yolk sac	)	
c. Yolk sac and allantois		
d. Amnion, chorion, yolk sac	and allantois	
15. Which of following is an elevator flight mu	iscle in flying birds	
a. Pectoralis major		
b. Pectoralis minor		
c. Pronator muscles		
d. All of the above		
16. Mammals which have true placenta are cal	lled	
a. Prototheria	<b>b.</b> Metatheria	A 12
c. Eutheria	d. None of the above	
or and told	ar 1,0110 of the above	
17. Diastema can be defined as		
a. Structure of mammalian eye		
b. Part of pelvic girdle	us to absorbed of sources	
c. Space in between the teeth d	ue to absence of canine	
d. Type of teeth in mammals		
18. Which of the following is the largest group	of mammals	
a. Rodentia	b. Chiroptera	
c. Carnivora	d. Insectivore	
19. The moth studied in industrial melanism i		
a. Peppered Moth	<b>b.</b> Black Moth	
c. Brown Moth	d. Blue Moth	
C. Diowit Mout	a. Dide Woul	

20. Along with Darwin, the theory of a. Wallace c. Lamarck	b. Odum	
c. Lamarck	d. None of	the above
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## UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



Scrutinizer's Signature

## Question Paper CUM Answer Sheet

# [PART (A): OBJECTIVE]

Ser	ial no. of the main
	Answer sheet

Invigilator's Signature

Course:							
Semester:		Roll No:					
Enrollment No:		Course code :					
Course Title :							
Session: 2016-17 Date:							
Instructions / Guidelines							
<ul> <li>The paper contains twenty (20) / ten (10) questions.</li> <li>The student shall write the answer in the box where it is provided.</li> <li>The student shall not overwrite / erase any answer and no mark shall be given for such act.</li> <li>Hand over the question paper cum answer sheet (Objective) within the allotted time (20 minutes / 10 minutes) to the invigilator.</li> </ul>							
Full Marks 20	Marks Obtained	Remarks					

Examiner's Signature