REV-01 BSZ/22/27

## B.Sc. ZOOLOGY SECOND SEMESTER

## CHORDATE DIVERSITY, COMPARATIVE ANATOMY & EVOLUTION BSZ – 721

(Use Separate Answer Scripts for Objective & Descriptive)

Duration: 3 hrs. Full Marks: 70

( PART-A: Objective )

Time: 20 min. Marks: 20

Choose the correct answer from the following:

ving: 1X20=20

1. In Which Sub-Phylum Notochord present only in the larval tail?

a. Urochordata

b Cephalochordata

c. Hemichordata

d Protochordata

2. Tunicine is a-

a. Lipid

b. Carbohydrate

c. Vitamin

d. Protein

3. Which type of metamorphosis shows by the Herdmania?

a. Only Prograssive metamorphosis

b. Retrograssive metamorphosis

c. Both option (a) & (b)

d. None of these

4. Cyprinus carpio Belongs to the Order -

a. Perciforms

b. Lophiiforms

c. Cypriniforms

d. Clupeiforms

5. Squirral belongs to the order-

a. Lagomorpha

b. Carnivora

c. Rodentia

d. Chiroptera

6. Which type of teeth found in the Elephants?

a. Selenodont

b. Secodont

c. Bunodont

d. Lophodont

7. Air Bladder also Known as-

a. Gall bladder

b. Swim bladder

c. Gill Chamber

d. All of the above

8. Which bird shows Diurnal Migration?

a. Cranes

b. Geese

c. Sparrows

d. Warblers

9. Which type of Skull found in the Lizards?

a. Synapsids Skull

b. Diapsid skull

c. Parapsid Skull

d. Anapsid Skull

10. Foam Nest made by -

a. Mammals

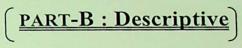
b. Aves

c. Amphibia

d. All of the above

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11.	Lateral line system is present in a. Fish c. Reptile	b. Bird d. Mammal
12.	Theory of natural selection was proposed by a. Lamark c. De Vries	b. Darwin d. Haekel
13.	<ul><li>Why did population of moths changed?</li><li>a. Predators were easily able to easily see their prey.</li><li>c. Light coloured moths were killed by smoke from industries</li></ul>	<ul><li>b. People hunted lighter coloured moth</li><li>d. None of the above</li></ul>
14.	Batesian mimicry is  a. When two or more unpalatable species resemble to each other  c. Attracts its prey by blending to its surrounding	<ul><li>b. Palatable species imitate unpalatable species</li><li>d. Behave as dead bodies</li></ul>
15.	In 1838, Darwin went through an essay on 'written by a. Wallace c. Lyell	The Principles of Populations' which was  b. Huxley d. R.Malthus
16.	Analogous structures are result of a. Convergent evolution c. Shared ancestry	<ul><li>b. Divergent evolution</li><li>d. Stabilizing selection</li></ul>
17.	Industrial melanism is an example of a. Neo- Darwinism c. Darwinism	<ul><li>b. Mutation</li><li>d. Natural selection</li></ul>
18.	The struggle for food and space is greatest to a. Closely relate species of same niche c. Closely related species of different niche	b Unrelated species of same niche d. Unrelated species of different niche
19.	These are long to help keep the sand out of c a. Nostrils c. Hair	amel's eye b. Eyelids d. Eyelashes
20.	This type of movement involves no propuls <ul><li>a. Gliding flight</li><li>c. Flapping flight</li></ul>	b. True flight d. None of these



Time: 2 hrs. 40 min. Marks: 50

## [Answer question no.1 & any four (4) from the rest]

1.	Define Dentition. Write the general Characteristics of Mammals.	2+8=10
2.	Define Air Bladder. Write Briefly about the Functions of air bladder	2+8=10
3.	Describe parental Care shows by the Amphibian.	10
4.	Describe about the Metamorphosis Shows by the Herdmania with the suitable diagram	10
5.	What is Darwin's theory of natural selection? Write its five basic postulates	10
6.	What is Industrial melanism, explain how it is an example of natural selection in action	8
7.	What is mimicry. Discuss its various types. Write the significance of mimicry	3+6+2
8.	Compare the anatomy of vertebrate heart	10

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