

**B.SC. ZOOLOGY**

(PASS COURSE)

SECOND SEMESTER

Chordate Diversity, Comparative Anatomy & Evolution

BSZ-721

Duration: 2 Hrs. 40 Mins.

Marks: 50

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

[ PART-B : Descriptive ]

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

1. Discuss the general features of *Herdmania*. Explain the structure with diagram. 7+3=10
2. What is retrogressive metamorphosis? Explain the process in *Herdmania*. 5+5=10
3. Explain the Parental caring in Amphibian with respect to direct caring by parents. 10
4. Describe the classification of Reptilia upto Order with example. 10
5. Discuss the general characters of class Aves. What are different sub classes of class Aves? Write a few characters of each sub class. 5+3+2=10
6. Write any five differences between flying and non flying birds. What are the different flying adaptations found in birds? 5+5=10
7. Discuss in brief the migration of fishes. Discuss the modifications of swim bladder in fishes. 5+5=10
8. Write a note on mimicry shown by animal kingdom 10

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Duration: 20 Mnts.

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[ PART-A : Objective ]

Choose the correct answer from the following:

1×20=20

1. Chordata characters disappear in the adult form of

- a. *Herdmania*
- b. *Petromyzon*
- c. *Myzine*
- d. None of the above

2. Which of the following is a feature of *Herdmania*

- a. Notochord only in larval tail
- b. Notochord in adult adult form
- c. Notochord is absent
- d. All of the above

3. *Herdmania* are commonly called as

- a. Acorn worms
- b. Tunicates
- c. Burrowing worm
- d. None of the above

4. Cranium or Brain box is present in

- a. Acraniata
- b. Craniata
- c. Both a and b
- d. None of the above

5. The body part of *Herdmania* that is attached to the substratum is

- a. Body proper
- b. Foot
- c. Tunic
- d. Head

6. Chordate characters are presence of

- a. Tubular Nerve chord
- b. Pharyngeal gill slits
- c. Notochord
- d. All of the above

7. Excretion in Amphibia is

- a. Ammnotelic
- b. Aminotelic
- c. Ureotelic
- d. Uricotelic

8. Caecilians belongs to the order \_\_\_\_\_

- a. Urodela
- b. Gymnophiona
- c. Anura
- d. Opisthocoela

9. Neotany is found in the larva of

- a. *Hylarana*
- b. *Salamandra*
- c. *Ichthyophis*
- d. *Necturus*

10. Persistence of larval characters is known as

- a. Neogenesis
- b. Paedogenesis
- c. Parthenogenesis
- d. Paedomorphosis

11. Heart in Crocodile is

- a. 2-Chambered
- b. 3-Chambered
- c. Incompletely 4-Chambered
- d. 4-Chambered

12. Skin of lizard contains

- a. Horny scales
- b. Horny scutes
- c. Plates
- d. All the above

13. Direct development is shown by-

- a. *Rhacophorus*
- b. *Hyloides*
- c. *Laptodactylus*
- d. *Rana calmitans*



14. The blubber in fishes is a type of

- a. Sensory organ
- b. Insulating material
- c. Osmoregularity organ
- d. Defensive organ

15. Spiny ant eater belongs to sub-class

- a. Prototheria
- b. Theria
- c. Allothria
- d. None of the above

16. Which of the following order is wrongly matched with the type of mammal

- a. Rhinoceros-Perrisodactyla
- b. Pteropus-Chiroptera
- c. Gorilla-Primate
- d. Hippopotamus-Carnivora

17. Diastema can be defined as

- a. Structure of mammalian eye
- b. Part of pelvic girdle
- c. Space in between the teeth due to absence of canine
- d. Type of teeth in mammals

18. Sound in birds is produced by

- a. Trachea
- b. Syrinx
- c. Larynx
- d. Vocal cord

19. The maximum number of teeth in any mammal in heterodont condition is

- a. 44
- b. 32
- c. 42
- d. 40

20. Mammals in which true placenta is present is called

- a. Prototheria
- b. Metatheria
- c. Eutheria
- d. All of the above

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# UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



## Question Paper CUM Answer Sheet

### PART (A) : OBJECTIVE

Serial no. of the main Answer sheet

Course : .....

Semester : ..... Roll No : .....

Enrollment No : ..... Course code : .....

Course Title : .....

Session : ..... 2016-17 ..... Date : .....

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#### Instructions / Guidelines

- > The paper contains twenty (20) / ten (10) questions.
- > The student shall write the answer in the box where it is provided.
- > The student shall not overwrite / erase any answer and no mark shall be given for such act.
- > Hand over the question paper cum answer sheet (Objective) within the allotted time (20 minutes / 10 minutes) to the invigilator.

Full Marks	Marks Obtained	Remarks
10		

Scrutinizer's Signature

Examiner's Signature

Invigilator's Signature