|   |  | REV-00 2018/06<br>BSZ/R/03/08   |  |
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| / | (PART-B: Descriptive )<br>Time: 2 hrs. 40 min. Marks: 50<br>[Answer question no.1 & any four (4) from the rest]  | B.Sc. ZOOLOGY<br>SECOND SEMESTER (REPEAT)<br>CHORDATE DIVERSITY, COMPARATIVE ANATOMY & EVOLUTION<br>BSZ-201<br>(Use separate answer scripts for Objective & Descriptive)<br>Duration: 3 hrs. Full Marks: 70<br><u>ÉART-A : Objective</u> )  |  |
|   |  | Time: 20 min. Marks: 20   |  |
|   | <ol> <li>Write the general features of <i>Branchiostoma</i>. What are the three 7+3=10 fundamental chordate characters?</li> <li>Write note on the process of retrogressive metamorphosis 10</li> <li>Give a general account of Dipnoi and discuss their amphibian affinities. 4+6=10 Draw a comparison between Chondrichthyes and Osteichthyes in a tabular form.</li> <li>Describe the different types of skull found in Reptiles with suitable 10 diagrams.</li> <li>Describe the anatomical peculiarities of Sphenodon with justification of 10 its systematic position.</li> <li>What are marsupials? What are their chief differences from Eutheria? 2+6+2=10 Give any two peculiar characters of Prototheria.</li> <li>How do the birds navigate and orient during migration? What are the 5+4+1=10 different types of migration found in birds? What are resident birds?</li> <li>What is Neo-Darwinism? Explain the main elements of this theory? 3+7=10</li> </ol> | Choose the correct answer from the following:       1X20=20         1. Chordata characters disappear in the adult form of       a. Herdmania         b. Petromyzon       c. Myzine         d. None of the above       4. 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. Tunicates are       a. Hemichordata         b. Cephalochordata       c. Urochordata         c. Urochordata       d. None of the above |  |
|   | ==***==  | <ul> <li>d. None of the above</li> <li>5. Skull is present in <ul> <li>a. Vertebrata</li> <li>b. Cephalochordata</li> <li>c. Urochordata</li> <li>d. None of the above</li> </ul> </li> <li>6. Acorn worms belong to Class <ul> <li>a. Enteropneusta</li> <li>b. Plactosphoroidea</li> <li>c. Pterobranchia</li> <li>d. None of the above</li> </ul> </li> <li>7. Scales in Chondrichthyes are <ul> <li>a. Cosmoid</li> </ul> </li> </ul>   |  |

- b. Placoid
- c. Ganoid
- d. Ctenoid
- 8. The function of crop is
  - a. To produce enzyme
  - b. To store food
  - c. To digest the food
  - d. To absorb the food
- 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. 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 muscle in flying birds
  - a. Pectoralis major
  - b. Pectoralis minor
  - c. Pronator muscles
  - d. All of the above

- 16. Mammals which have true placenta are called
  - a. Prototheria
  - b. Metatheria
  - c. Eutheria
  - d. None of the above
- 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. 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 is
  - a. Peppered Moth
  - b. Black Moth
  - c. Brown Moth
  - d. Blue Moth
- 20. Along with Darwin, the theory of natural selection was also put forward by
  - a. Wallace
  - b. Odum
  - c. Lamarck
  - d. None of the above

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