

**B.Sc. ZOOLOGY  
SECOND SEMESTER  
BIOLOGY OF CHORDATES  
BSZ-201**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

- Balanoglossus builds a \_\_\_\_\_ burrow.
  - S shaped
  - T shaped
  - Staright
  - U shaped
- A \_\_\_\_\_ is a set of vacuolated turgid cells.
  - Nerve cord
  - Notochord
  - Post anal tail
  - Pharyngeal gill slits
- The post anal tail helps the animal in \_\_\_\_\_.
  - Balance
  - Locomotion
  - Communication
  - All of the above
- The dorsal hollow nerve cord is derived from the \_\_\_\_\_.
  - Ectoderm
  - Endoderm
  - Mesoderm
  - Varies
- Protochordates are generally animals living in \_\_\_\_\_.
  - Marine
  - Freshwater
  - Both a & b
  - Shallow intertidal zone
- The excretory organ of Balanoglossus is:
  - Flame cells
  - Glomerulus
  - Nephridia
  - Protonephridia
- The body of which group of animals can be divided into Proboscis, collar and trunk:
  - Hemichordates
  - Protochordates
  - Cephalochordates
  - Urochordates
- The excretory organ of urochordates is \_\_\_\_\_.
  - Neural gland
  - Pyloric gland
  - Nephrocytes
  - All of the above
- The notochord is only present in larval tail in \_\_\_\_\_.
  - Hemichordates
  - Cephalochordates
  - Urochordates
  - Protochordates
- Retrogressive metamorphosis can be seen in which of the following groups?
  - Hemichordata
  - Cephalochordates
  - Urochordates
  - Protochordates

1. The earliest known vertebrates to appear in fossil records is \_\_\_\_\_.
  - a. Ostracoderms
  - b. Placoderms
  - c. Tetrapods
  - d. Mammals
2. Scales in Cyclostomes are \_\_\_\_\_.
  - a. Cycloid
  - b. Placoid
  - c. Ctenoid
  - d. Absent
3. The earliest jawed vertebrates of fossil records are \_\_\_\_\_.
  - a. Placoderms
  - b. Ostracoderms
  - c. Cyclostomes
  - d. Acanthodii
4. The tail in Chondrichthyes is:
  - a. Heterocercal
  - b. Homocercal
  - c. Hypocercal
  - d. Hypercercal
5. Which of the following body parts is absent in birds?
  - a. Forelimb
  - b. Hindlimb
  - c. Pectoral girdle
  - d. Pelvic girdle
6. Excretion in class Osteichthyes is:
  - a. Ammonotelic
  - b. Aminotelic
  - c. Uricotelic
  - d. Ureotelic
7. The long hollow bones and connected air sacs are the characteristic features of:
  - a. Reptiles
  - b. Aves
  - c. Mammals
  - d. All the vertebrates
8. Paedogenesis refers to:
  - a. Precocious development of gonads
  - b. Retention of larval characters by adults
  - c. Retention of rudimentary characters by adults
  - d. Retrogressive metamorphosis
9. Turtles are included in the order \_\_\_\_\_.
  - a. Squamata
  - b. Rhyncocephalia
  - c. Chelonia
  - d. Crocodilia
20. RBC in mammals are:
  - a. Circular and enucleated
  - b. Oval and nucleated
  - c. Convex and nucleated
  - d. Convex and enucleated

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**( Descriptive )**

Time : 2 hr. 30 mins.

Marks : 50

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

1. Write about morphological and anatomical volant adaptation of bird. 10
2. Explain the three fundamental chordate characters with diagram. 10
3. Write down the general characteristics and classification of protochordata. 10
4. State the differences between hemichordate, urochordata and cephalochordate. 10
5. Write an explanatory note on Balanoglossus with diagrams. 10
6. Write the significance of Ostracodermi. Mention the biological significance of Placodermi. 6+4=10
7. Write the general characteristics of the class Pisces. Describe the significance of air bladder in Fishes. 7+3=10
8. Elaborate the different types of parental care behavior shown by amphibians. 10

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