

B.Sc. ZOOLOGY
SECOND SEMESTER
BIOLOGY OF CHORDATES
BSZ-921 [IDMj]
[USE OMR SHEET FOR OBJECTIVE PART]

SET
A

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

1 × 10 = 10

1. Notochord is confined to proboscis in:
a. Urochordata
b. Hemichordata
c. Chordata
d. Cephalochordata
2. Which of the following is present in all chordates?
a. Umbilical cord
b. Ventral tubular nerve cord
c. Dorsal tubular nerve cord
d. Pseudocoelom
3. Name the animal group whose members are considered doubtful chordate.
a. Urochordata
b. Hemichordata
c. Cephalochordata
d. All of the above
4. The tetrapods whose skin is dry covered by ectodermal horny scales or scutes:
a. Amphibian
b. Aves
c. Mammalia
d. Reptilia
5. Blood vascular system in *Balanoglossus* is:
a. Colourless
b. Open type
c. Closed type
d. Both a and b
6. Coelom in *Balanoglossus* is:
a. Schizocoel
b. Enterocoel
c. Holocentric
d. None of the above
7. The 'age of amphibian' is used for:
a. Ordovician period
b. Silurian period
c. Carboniferous period
d. Devonian period
8. Autonomic nervous system is present in:
a. Cephalochordates
b. Hemichordates
c. Urochordates
d. All protochordates
9. Development in urochordata is:
a. Direct
b. Indirect with retrogressive metamorphosis
c. Indirect without metamorphosis
d. Indirect with metamorphosis

10. In deuterostomes, blastopore forms:

- a. The mouth
- c. Brain

- b. The anus
- d. Kidney

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Classify phylum chordata upto classes giving examples of each group. | 5 |
| 2. What are vertebrates? Describe their general characters. | 3+7=10 |
| 3. Give a general comparison of the three protochordate subphyla. | 10 |
| 4. Discuss the affinities of <i>Balanoglossus</i> with some other phyla. | 10 |
| 5. Mention the biological significance of Ostracodermi and Placodermi. | 5+5=10 |

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