



ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Question No. 2. Write short answer of the following questions

(2X10=20)

- I. What are the general features of Hemichordata?
- II. What are Altricial chicks?
- III. What is Archaeopteryx?
- IV. What is Aestivation?
- V. Any three characteristics of Echinoderms?
- VI. What is cloaca?
- VII. What is route based navigation?
- VIII. What is parietal eye?
- IX. What regions of the amphibians brain integrate sensory information and initiate motor responses?
- X. What is buccopharyngeal respiration?

Question No. 3. Explain the following questions?

(10X3=30)

- I. Write a detailed note on class Echinodermata?
- II. Write a detailed note on chondrichthyes?
- III. Write a detailed note on feathers in birds?



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Second Semester – 2019

Paper: Zoology-II (Chordate Diversity)

Course Code: ZOOL-103, ZOL-12302 Part – I (Compulsory) Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Lung fishes belong to the class
 - a. Chondrichthyes
 - b. Osteichthyes
 - c. Cephalaspidomor
 - d. Myxini
2. Terrestrial animals may face temperature extremes from
 - a. -65°C to 40°C
 - b. -65°C to 60°C
 - c. -65°C to 50°C
 - d. -65°C to 70°C
3. The most important cue for birds during migration is
 - a. Temperature
 - b. Rainfall
 - c. weather
 - d. photoperiod
4. Caecilians belong to order
 - a. Caudata
 - b. Gymnophiona
 - c. Anura
 - d. Squamata
5. Emperor penguins are mostly found in
 - a. Antarctica
 - b. Arctic
 - c. Australia
 - d. Austria
6. *Sinoris* was discovered from
 - a. America
 - b. Iraq
 - c. Pakistan
 - d. China
7. The number of species in order Anura is
 - a. 1500
 - b. 3500
 - c. 2500
 - d. 4500
8. All birds are
 - a. viviparous
 - b. oviparous
 - c. ovoviviparous
 - d. parthenogenetic
9. Total species of Monotremes in Australia are
 - a. 4
 - b. 5
 - c. 6
 - d. 7
10. The most important sense in Amphibians is
 - a. hearing
 - b. vision
 - c. smell
 - d. touch

