

CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN
REPEAT SEMESTER END EXAMINATION, MAY 2023

Semester: II of B.Sc. ZOC 102: Diversity of Chordates and Genetics
Total Marks: 80 Date: 02/05/2022 Duration: 2 hrs Total number of pages : 2

Instructions: 1. All questions are compulsory.

2. Figures to the right indicate marks.

3. Draw neat labelled diagrams wherever necessary.

Q.1. Answer **ANY FOUR** of the following: (4x4)

- a. List the important features of 'Chordates'.
- b. Classify Cyclostomes up to classes giving an example and a feature of each.
- c. Elaborate the 'General features of Agnatha'.
- d. List any two orders of sub-class Lissamphibia with their characteristic features.
- e. Differentiate between 'Venomous and Non-venomous snakes'.
- f. Archaeopteryx is considered as the connecting link between Reptiles and Aves.

Justify

Q.2. Answer **ANY FOUR** of the following: (4x4)

- i) List out the distinguishing features of Superorder 'Sphenisciformes' with an example.
- ii) Summarize the characteristic features of Order Proboscidea. State an example of the same.
- iii) List the four Chromosome types.
- iv) Differentiate between sex influenced and sex linked inheritance.
- v) What are induced mutations? Add a note on Physical mutagens.
- vi) Write a short note on Eukaryotic chromosomes.

Q.3. A) Explain in detail the different types of 'migration patterns found in fishes'.

(6)

OR

A) Write a note on 'parental care in Fishes'.

(6)

B) Discuss the rise and fall of Mesozoic reptiles citing the example of Dinosaurs.

(6)

Q.4. A) Discuss the general features of class Reptilia.

(6)

OR

A) Discuss the salient features of Order Primates and give any two examples of the order.

(6)

B) Discuss the characteristic features of Mammals.

(6)

Q.5. A) Elaborate the various strategies involved in flight adaptations in birds.

(6)

OR

A) Write the features of Order Cetacea with examples.

(6)

B) Discuss the different types of migration in Aves.

(6)

Q.6. A) With the help of an example explain the concept of Multiple genes.

(6)

OR

A) With the help of an example explain the concept of Multiple alleles.

(6)

B) Write a note on Giant Chromosomes

(6)