63/1 (SEM-3) CC5/ZOOHC3056

2023

ZOOLOGY

Paper: ZOOHC3056

(Diversity of Chordates)

Full Marks: 60
Pass Marks: 24

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Choose the correct answer of the following questions (any *five*):

1×5=5

- (a) India placed in the ____ region.
 - (i) Oriental
 - (ii) Neotropical
 - (iii) Australian
 - (iv) Palaearctic

- (b) ____ is found in Australian region.
 - (i) Rhinoceros
 - (ii) Elephant
 - (iii) .Zebra
 - (iv) Sphenodon
- (c) Sebaceous gland is found in
 - (i) birds
 - (ii) amphibians
 - (iii) reptiles
 - (iv) mammals
- (d) Myxine is an example of
 - (i) hemichordata
 - (ii) urochordata
 - (iii) cephalochordata
 - (iv) cyclostomes

- (e) Wiberian ossicle is found in
 - (i) cartiligenous fish
 - (ii) bony fish
 - (iii) frog
 - (iv) insect
- (f) Pineal gland is found functional in
 - (i) lizard
 - (ii) crocodile
 - (iii) sphenodon
 - (iv) archaeopteryx
- (g) Salamander belongs to order
 - (i) caudata
 - (ii) squamata
 - (iii) anura
 - (iv) osteichthyes

- (h) Keel sternum is characteristic of
 - (i) mammal
 - (ii) bird
 - (iii) frog
 - (iv) lizard
- (i) Pneumatic bone is characteristic of
 - (i) running animals
 - (ii) burrowing animals
 - (iii) aerial animals
 - (iv) water animals
- (j) Example of cartiligenous fish is
 - (i) dolphin
 - (ii) hilsha
 - (iii) shark
 - (iv) whale

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(Continued)

- 2. Answer any five of the following questions: 2×5=10
 - (a) Mention any two characteristics of Hemichordata.
 - (b) Why is sphenodon called living fossil?
 - (c) Write the characteristics of poisonous snakes.
 - (d) Mention the names of zoogeographical realms and their regions.
 - (e) Write the names of endemic mammals found in Oriental region.
 - (f) Write the reptilian characters found in Prototheria.
 - (g) Write a short note on origin of Tetrapods.
 - 3. Answer any *five* of the following questions: $5 \times 5 = 25$
 - (a) Write a note on retrogressive metamorphosis in Urochordata.
 - (b) Write the parental care in fishes.
 - (c) Write the differences between Chondrichthyes and Ostrichthyes.

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(Turn Over)

- (d) Write the general characteristics of class Reptilia (minimum 10 characters).
- (e) Write a note on isolation of major mammalian groups of the world after continental drift theory.
- (f) Write the general characteristics of class mammalian (minimum 10 characters).
- (g) Write a note on migration of Birds.
- (h) "Birds are evolved from the reptiles."
 Justify the statement.
- (i) Write the general characteristics of Urochordata (minimum 10 characters).
- **4.** Answer the following questions (any *two*): $10 \times 2 = 20$
 - (a) Write the salient features of class amphibia. Write the characters of three living orders of amphibia and give example of them. Why are amphibians important in evolutionary point of 3+5+2=10
 - What do you mean by plate tectonic?
 What are the results of plate tectonic?

3+7=10

c) Write the origin of Chordata after
Dipleurula concept. Write a note on
advanced features of Vertebrates over
Protochordates. 6+4=10

(d) Write principles and aerodynamics of flight. Which factors support birds for flight? 7+3=10

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