

2021-24

Time : 3 hours

Full Marks : 60

Pass Marks : 24

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group – A
(Compulsory)

1. Select the correct answer from the following :

1×10 = 10

(a) In urochordata notochord is present :

- (i) Throughout the body
- (ii) In the abdominal region
- (iii) Only in larval tail
- (iv) Larval pharynx

(b) Which of the following is a living fossil and a reptile ?

- (i) Peripatus
- (ii) Latimaria
- (iii) Archaeopteryx
- (iv) Sphenodon

(c) Lamprey is the common name of :

- (i) Myxine
- (ii) Amphioxus
- (iii) Petromyzon
- (iv) None of these

(d) Marsupial mammals moved from South America to Australia via :

- (i) The Galapagos Archipelago
- (ii) Africa
- (iii) Antarctica
- (iv) Madagascar

(e) Flightless birds are grouped in :

- (i) Carinatae
- (ii) Ratitae
- (iii) Neognathare
- (iv) None of these

(f) Madagascar is in :

- (i) Australia region

- (ii) Oriental region
- (iii) Ethiopian region
- (iv) Palaearctic region
- (g) Which of the following chordate feature is not shared by non-chordates ?
- (i) Axiate organisation
- (ii) Pharyngeal gill-slits
- (iii) Metamerism
- (iv) Bilateral symmetry
- (h) In which of the Amphibian, parental care is manifested ?
- (i) **Ichthyophis** (ii) **Alytes**
- (iii) **Pipa** (iv) All of these
- (i) The region surrounded by sea from three sides viz west, north and east and on the southern side by Sahara and Himalayas is :
- (i) Oriental region
- (ii) Palaearctic region
- (iii) Ethiopian region
- (iv) Neoartic region

- (i) Monotremes are :
- (i) Oviparous (ii) Ovoparous
- (iii) Ovoviviparous (iv) Viviparous

2. Write any **one** of the following :

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- (a) Biting mechanism in snakes
- (b) **Archaeopteryx**
- (c) Continental drift theory

Group – B

3. Answer any **three** questions of the following :

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- (a) Classify the phylum chordata upto classes with characters and examples.

OR

Discuss the structural organisation of hemichordates.

- (b) Give a brief account of origin of chordates.

OR

What is parental care ? Describe it in Fishes.

- (c) Give a brief account of origin of Tetrapoda.

OR

Mention main characteristic features of class reptilia and classify upto order by giving characters and examples.

- (d) Give an account of aerodynamics of flight in birds. or Explain different types of parental care in Amphibians.
- (e) Write an essay on adaptive radiation with reference to locomotary appendages in mammals. Or write down general characters and affinity of Prototheria.
- (f) What are the major zoogeographical regions of the world ? Describe the characteristic fauna of Oriental region.



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