

**2 0 2 1**

Full Marks : 60

Time : 3 hours

The figures in the right-hand margin indicate marks

Answer **all** questions

1. Answer *all* the questions : 8×1

- (a) Which protochordate possess well developed notochord?
- (b) Name the larval stage of Petromyzon.
- (c) What type of migration found in European Eel?
- (d) Name the type of jaw suspension found in Dipnoi.
- (e) Retention of some larval characters in adult is called ———.
- (f) Name the excretory materials found in birds.
- (g) Name the animal with teatless mammary glands.
- (h) The light material constituting the continents is called ———.

2. Answer *any eight* questions within 2 to 3 sentences each : 8×1½

- (a) Write the three common characteristics of chordates.
- (b) Write down the functions of notochord.
- (c) Differentiate between Chondrichthyes and Osteichthyes.
- (d) Differentiate between Craniata and Acraniata.
- (e) What is dipneuria concept?
- (f) Write down the significance of Archaeopteryx.
- (g) What is plate tectonic theory?
- (h) What do you mean by adaptive radiation in mammals?
- (i) Write down the functions of poison gland in snake.
- (j) Write about the vertebrates found in neotropical realm.

3. Answer *any eight* questions within 75 words each : 8×2

- (a) What is continental drift theory?

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- (b) Write down the Echinoderm theory of chordates.
- (c) Differentiate between Prototheria and Metatherian affinities.
- (d) Describe about Zoogeographical realm.
- (e) Why are air bladders important in fishes?
- (f) Describe the salient features of Reptilia.
- (g) Describe the affinities of Sphenodon.
- (h) Discuss the evolutionary significance of Dipnoi. <https://www.odishastudy.com>
- (i) Write about the accessory respiratory organs in Pisces.
- (j) Write down the general characters of Mammalia.

4. Answer *any four* questions within 500 words each : 4×6

- (a) Describe the parental care in fishes with examples.
- (b) Classify class Reptilia up to order level.

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- (c) Discuss the migration of birds.
- (d) Describe the biting mechanism of snakes.
- (e) Describe the changes occurs during retrogressive metamorphosis in Ascidian Tadpole.
- (f) Discuss the affinities of Prototheria.
- (g) Describe the parental care in Amphibia.
- (h) Write about the different types of fauna found in different Zoogeographical realms.

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