## AA (H-2)-Z (3)

## 2020

Time: 3 hours

Full Marks: 75

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

Figures in the margin indicate full marks

Answer five questions, in which Q.No. 1 is compulsory.

Select the correct answer from the options given below:

1x15=15

- (a) The filter feeding mechanism is not found in
  - (i) Petromyzon

(ii) Herdmania

(iii) Pyrosoma

- (iv) Amphioxus
- (b) The stage in the life cycle of Petromyzon is spent in fresh water is:
  - (i) Adult Stage

- (ii) Larval Stage
- (iii) Both larval & adult
- (iv) None of the above
- (c) Echinoderm larval theory of origin at chordates was proposed by:

https://www.tmbuonline.com

- (i) Muller & Bateson
- (ii) Garstang & De Beer
- (iii) Semper & Minnot
- (iv) Needham & Wilhelmis

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(A)	Ampulla of L	orenzini of Scoliodon	are
m	AIHDUHA OLL	Olombia -	

- (i) Thermoreceptor
- (ii) Rheoreceptor
- (iii) Thermoreceptor
- (iv) None
- (e) Anabas body is covered by:
  - (i) Cycloid Scale

(ii) Ctenoid Scale

(iii) Placoid Scale

- (iv) Ganoid Scale
- (f) Swim bladder in Dipnoi functions as
  - (i) Hydrostatic organ
- (ii) Respiratory organ
- (iii) Sound Producing organ
- (iv) All of the above
- (g) Which of the following Lung fish is found in South America?
  - (i) Protopterus

- (ii) Lepidosiren
- (iii) Neoceratodus
- (iv) All of these
- (h) The Venom of Cobra and Krait is:
  - (i) Neurotoxic

(ii) Haemotoxic

(iii) both I & II

- (iv) None of these
- (i) Poison gland of Snake is a modification of
  - (i) Mucous gland
  - (ii) Salivary gland
  - (iii) Sweet gland
  - (iv) None of these
- (j) Echidna is a connecting link between:
  - (i) Reptile and Birds

AA(H-2)-Z(3)

.2

- (ii) Reptile and Mammal (iii) Bird & Mammal
- (iv) Amphibia & Reptile
- (k) Prototherians are having
  - (i) Mammary gland without nipple
  - (ii) Mammary gland with nipple
  - (iii) No mammary gland
  - (iv) All of these
- (l) Chimpanzee and Man belong to the same
  - (i) Class and order
  - (ii) Order and genus
  - (iii) Genus & Species
  - (iv) Ali of these
- (m) Archae opteryx is a fossil bird found for the first time in
  - (i) India
  - (ii) Germany
  - (iii) South America
  - (iv) Ita y
- (n) The Common have at Herdmania is
  - (i) Sea Squid
  - (ii) Sea Squirt
  - (iii) Sea devil
  - (iv) Sea Star

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(1)	ran			
(ii)	Fang			

(o) The Poisonous teeth of snake is commonly known as

- (iii) Toxin
- (iv) Carnassial teeth
- 2. Give an account of the origin and evolution of amphibia.

3. Describe the process of feeding and digestion in Amphioxus.

15

15

- 4. Give an account of structure & function of gills in Rehu. 15
- Describe the general organization & affinities of Dipmol. 15
- 6. Give on account of different types of skull found in reptiles and add a note on, its significance.
- 7. Describe the flight adaptations in Birds. 15
- 8. Describe the structure & Life cycle of Pyrosoma. 15
- 9. Write short notes on any three of the following:  $3\times5=15$ 
  - Air breathing fishes
  - (ii) Branchial heart
  - (di) Primate
  - (iv) Metatheria
  - (v) Extinct Reptiles

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AA (H-2)-Z(3)

4