

M.Sc. ZOOLOGY. SEM III. Elective Course.  
(201-A) (2019-21). CBCS.

Answer any Five Questions. Q.No 1 is Compulsory and any Four, not more than any Two from Each UNIT.

1. choose the Correct Answer.

(i) Example of Holocephali is.

- (a) Petromyzon
- (b) Scolecodon.
- (c) chimaera
- (d) Labeo.

(ii) Light producing organs are found mostly in.

- (a) Fresh water Fishes
- (b) Deep Sea Fishes
- (c) Hill stream Fishes
- (d) Elasmobranchi

(iii) The Major osmoregulatory organs in Fishes is.

- (a) Gills
- (b) Kidney.
- (c) Liver
- (d) stomach.

(iv) Swim bladder or Air bladder is present only in.

- (a) Fish
- (b) Amphibia
- (c) Aquatic Reptiles
- (d) Aquatic Mammals

(v) Catadromus Fish migrates from.

- (a) Sea to River
- (b) River to Sea.
- (c) River to Estuary
- (d) River to deep sea.

(vi) Lateral line System in Fishes is Connected to .

- (a) optic
- (b) Auditory.
- (c) Facial
- (d) Vagus nerve.

(vii) Hill stream Fishes bears a Adhesive. devices to Avoid Swept away in the rapid Current of Mountain streams.

- a) Pseudoecheneis
- b) Laguvia
- c) Glypto thorax
- d) All of the above.

(viii) The Lung Fish Found in tropical Africa is.

- a) Neoceratodus.
- (b) Protopterus.
- (c) Lepidosiren.
- (d) None of above.

(ix) which of the Following is not a Air Breathing Fish.

- a) Anabas.
- b) channa.
- c) clarias
- d) Labeo.

(x) oral papilla as an accessory respiratory organ.

- a) Anabas
- b) Electrophorus.
- c) Anguilla
- d) Amia.

## UNIT-I . SEM-III. (201A).

2. Give an account of EVOLUTION OF FISHES.
3. Give an account of Accessory Respiratory organs and their Function in Bony Fishes.
4. Give an Account of Migratory Behavior in Fishes, Factors influencing it and their Advantages.
5. Describe the Adaptive Features and living pattern of Hill stream Fishes of India.

## UNIT-II .

6. Give an Account of Nursery Pond, Rearing pond and stocking ponds for Fish Culture.
7. Define Estuarine Fisheries and describe the Estuarine Fisheries of Chilka Lake.
8. Give an Account of Dams and their Effects on Fish Migration.
9. Write short Notes on any Three. of the Following.
  - a) Bombay Duck.
  - b) Cage Culture.
  - c) Fish spawns and Fingerlings.
  - d) Ribbon Fish
  - e) Bundh Breeding

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SEM-III (201-A) Elective Fish and Fisheries  
Group A.

Q1) Multiple choice.

ANSWERS :-

- (i) c
- (ii) b.
- (iii) b.
- (iv) a.
- (v) b.
- (vi) d.
- (vii) d.
- (viii) b.
- (ix) d.
- (x) b.

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