

**Yashwantrao Chavan College of Science, Karad.**

**B.Sc. Part III Semester-V**

**Paper- XII Aquatic Biology**

**Question Bank –**

**Multiple choice questions**

1. Grave's disease or Basedow's disease is due to .....  
a) Hyperactivity of adrenal cortex b) Hypoactivity of the thyroid gland  
c) Hyperactivity of thyroid gland d) Hypoactivity of islets of Langerhans
2. Glucocorticoids is produced by the ..... of adrenal gland.  
a) Zona Glomerulosa b) Zona Fasciculata c) Zona Reticularis d. Both B and C
3. Hill stream fish usually consists of .....  
a) Greatly flattened head and body b) leaf like appearance in some cases  
c) poorly developed scales and bony armours d) All of the above
4. Hypothyroidism causes ..... in adults.  
a) Weight loss b) Diabetes c) Cretinism d) Myxoedema
5. .... is the area between high and low tide mark.  
a) Intertidal zone b) Benthic zone c) Hydral Zone d) Coral Reef
6. The water temperature in estuaries except fjords varies markedly because.....  
a) Muddy area b) Shallow depth ad short surface area  
c) Shallow depth and large surface area d) Sedimented area
7. .... is the type of exoskeleton formed by corals?  
a) Hydrogen Calcite b) Calcium Carbonate c) Limestone d) Phosphate
8. Shore bottom that is splashed by water but not submerged is ..... Zone  
a) Pelagic b) Benthic c) Littoral d) Supra littoral
9. Estuaries are one of the most ..... system of the world.  
a) inert b) Non-productive c) Productive d) None of these
10. The hormone Noradrenaline secreted by adrenal gland is involved in .....  
a) Inhibition of the heart b) Increase the blood pressure



23. The pelagic zone occupies the depth of .....km.

- a) 20    b) 11    c) 31    d) 21

24. Estuaries are dominated by .....

- a) Soft muddy surface                      b) Rich in organic matter  
c) Combination of silt and clay substrate    d) All of these

25. .... is the largest coral reef on the earth planet

- a) Rainbow reef, Fiji                      b) Great Chago archipelago, India  
c) Great barrier reef, Australia        d) Amazon reef, Brazil.

### **Long answer Question**

1. Describe different types of lakes
2. Describe different stages of stream development in detail
3. Define endocrine gland and describe anatomy, histology and hormonal activities of thyroid gland
4. Define and give detailed account on marine benthic zone.
5. Define and give detailed account on marine benthic zone.
6. Describe different adaptative characters in hill stream fishes
7. Define endocrine gland and describe anatomy, histology and hormonal activities of adrenal gland
8. Define estuary and describe different types of estuaries.
9. Describe different types of lakes
10. Define endocrine gland and describe hormonal activities of thyroid gland
11. What is coral reef? Describe different types of coral reefs.
12. Describe different types of lakes
13. Describe the anatomy, histology and hormonal activities of endocrine pancreas
14. What is coral reef? Describe different types of coral reefs.
15. Describe different stages of stream development in detail
16. Define endocrine gland and describe anatomy, histology and hormonal activities of thyroid gland

17. Define endocrine gland and describe hormonal activities of thyroid gland
18. What is intertidal Zone? Describe intertidal zone in detail.

### **Short answer questions**

1. Thermal Stratification
2. Oligotrophic lake
3. Nitrogen cycle
4. Atoll Coral Reef
5. Islets of Langerhans's
6. Hyperparathyroidism
7. Turbidity
8. Eutrophic lake
9. Bar built estuary
10. Nitrogen cycle
11. Temperature as physicochemical factor of lake
12. Histological structure of Adrenal Gland
13. Phosphorus cycle
14. Oligotrophic lake
15. Hypothyroidism
16. Benthic Zone
17. Wetland ecosystem
18. Tectonic Estuary
19. Sulphur cycle
20. Thermal stratification in lake
21. Nitrogen cycle
22. Parathormone
23. Oxbow Lake
24. Estuarine ecosystem
25. Eutrophic Lake
26. Adaptations in hill stream fish
27. Intertidal Zone

28. Hyperthyroidism

29. Adaptations in hill stream fish

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**B.Sc. (Part-III) (Semester-V) (Revised)**

**Examination, April - 2018**

**ZOOLOGY**

**Endocrinology, Environmental Biology and Toxicology (Paper-XII)**

**Sub. Code : 65851**

**Day and Date : Friday, 20-04-2018**

**Total Marks : 40**

**Time : 3.00 p.m. to 5.00 p.m.**

- Instructions :**
- 1) All questions are compulsory.
  - 2) Figures to the right indicate full marks.
  - 3) Draw neat labeled diagrams wherever necessary.

**Q1) Select the correct answer from the following and rewrite the sentences: [8]**

- a) Iodine is essential for synthesis of \_\_\_\_ hormone.
  - i) Insulin
  - ii) Progesterone
  - iii) Thyroxine
  - iv) Aldosterone
- b) The hormone insulin was discovered by \_\_\_\_\_.
  - i) Banting and Best
  - ii) Claude and Palade
  - iii) Benda
  - iv) Watson and Crick
- c) \_\_\_\_gland is largest endocrine gland in human body.
  - i) Pituitary
  - ii) Parathyroid
  - iii) Thyroid
  - iv) Islets of Langerhans
- d) Kaziranga National Park is famous for \_\_\_\_\_.
  - i) Bison
  - ii) Rhinoceros
  - iii) Painted stork
  - iv) Wild dog
- e) Sanjay Gandhi National Park is located in \_\_\_\_ state.
  - i) Assam
  - ii) Rajasthan
  - iii) Maharashtra
  - iv) Gujarat

**P.T.O.**

- f) \_\_\_\_\_ shows adaptations for living in desert habitat.
- i) Phrynosoma
  - ii) Tiger
  - iii) Rhinoceros
  - iv) Crocodile
- g) Morphine is \_\_\_\_\_ toxicant.
- i) Synthetic
  - ii) Animal
  - iii) Plant
  - iv) Mineral
- h) Lake which has very good productivity is known as \_\_\_\_\_
- i) Oligotrophic
  - ii) Eutrophic
  - iii) Distrophic
  - iv) Polytrrophic

**Q2)** Attempt any two of the following: [16]

- a) Describe the histology of Islets of Langerhans and its role in carbohydrate metabolism.
- b) Write an account on faunal adaptation of deep sea water habitat.
- c) Describe In-situ and Ex-situ conservation methods of biodiversity.

**Q3)** Attempt any four of the following: [16]

- a) Pesticides toxicity.
- b) Radhanagari Wildlife Sanctuary.
- c) Functions of Prostaglandins.
- d) Classification of toxicants.
- e) Mechanism of hormonal actions.
- f) Hormones of Adrenal cortex.

