

**SHIVAJI UNIVERSITY, KOLHAPUR**

**Question Bank For Mar 2022 ( Summer ) Examination**

**Subject Code : 79696 Subject Name : Aquatic Biology**

Common subject Code (if any) - DSE-F31 (AQUATIC BIOLOGY)

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Q. 1. Choose the correct alternatives from the given below and rewrite the sentences 8

1. Shore bottom that is splashed by water but not submerged is ..... Zone

- a) Pelagic      b) Benthic      c) Littoral      d) Supra littoral

2. Estuaries are one of the most ..... system of the world.

- a) inert      b) Non-productive      c) Productive      d) None of these

3. .... is the ring shaped coral reef.

- a) Fringing      b) Barrier      c) Atoll      d) Archipelagic

4. ....type of shore is most biologically diverse.

- a) Sandy      b) Mud flats      c) Salt Marsh      d) Rocky Shore

5. In hill fishes, lips are modified to form .....

- a) Suckers      b) Oral Tube      c) Barbs      d) None of these

6. 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

7. Glucocorticoids is produced by the ..... of adrenal gland.

- a) Zona Glomerulosa      b) Zona Fasciculata  
c) Zona Reticularis      d. Both B and C

8. A delta is made up of sedimentation .....

- a) deposited at the mouth of a river      b) deposited on the inside of a meander loop  
c) deposited at a mountain front      d) deposited at a mountain front

Q. 2 Answer the following questions (any two)

16

A) Define estuary and describe different types of estuaries.

B) Describe different stages of stream development in detail

c) Define endocrine gland and describe anatomy, histology and hormonal activities of thyroid gland

Q. 3 Write short notes on (any four)

16

a) Thermal Stratification

b) Oligotrophic lake

c) Wetland ecosystem

d) Histological structure of Adrenal Gland

e) Phosphorus cycle

f) Hyperparathyroidism

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Q. 1. Choose the correct alternatives from the given below and rewrite the sentences

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1. .... gets the most sunlight for photosynthesis.
  - a) Abyssopelagic zone
  - b) Bathypelagic zone
  - c) Epipelagic zone
  - d) Mesopelagic zone
  
2. .... estuary is formed by rising the sea level and fill existing valley.
  - a) Bar built
  - b) Fjords
  - c) Tectonic
  - d) Coastal Plain
  
3. Type of coral reef forms along the shoreline is .....
  - a) Fringing
  - b) Barrier
  - c) Atoll
  - d) Archipelagic
  
4. .... of wetland is dominated by woody plants such as trees and shrubs.
  - a) Marsh
  - b) Swamp
  - c) Bog
  - d) Saturated Pond
  
5. 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
  
6. Hypothyroidism causes ..... in adults.
  - a) Weight loss
  - b) Diabetes
  - c) Cretinism
  - d) Myxoedema
  
7. The hormone Noradrenaline secreted by adrenal gland is involved in .....
  - a) Inhibition of the heart
  - b) Increase the blood pressure
  - c) stimulation of the metabolism.
  - d) Peripheral vasodilation
  
8. Natural levees are made up of .....
  - a) silt and clay deposited during a flood
  - b) sand and gravel deposited during a flood
  - c) overlapping point bars
  - d) isolated point bars

Q. 2 Answer the following questions (any two)

16

A) What is coral reef? Describe different types of coral reefs.

B) Describe different adaptative characters in hill stream fishes

C) Define endocrine gland and describe anatomy, histology and hormonal activities of adrenal gland

Q. 3 Write short notes on (any four)

16

a) Turbidity

b) Eutrophic lake

c) Bar built estuary

d) Nitrogen cycle

e) Temperature as physicochemical factor of lake

f) Hypothyroidism

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1. .... is the area between high and low tide mark.  
a) Intertidal zone    b) Benthic zone    c) Hydral Zone    d) Coral Reef
  
2. 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
  
- 3..... is the type of exoskeleton formed by corals?  
a) Hydrogen Calcite    b) Calcium Carbonate  
c) Limestone              d) Phosphate
  
4. .... wetland is dominated by non-woody plants such as cattails.  
a) Marsh    b) Swamp    c) Bog    d) Pond
  
5. In hill fishes, eyes are .....  
a) Large and lateral                      b) Small and dorsal  
c) Non-functional                      d) Reduced
  
6. In endocrine pancreas ..... cells produce insulin.  
a) Alpha cells                      b) Beta cells                      c) Delta cells                      d) F cells
  
7. .... are the factor that contributes to the carbon cycle  
a) fossil fuel combustion    b) respiration  
c) photosynthesis                      d) all of these
  
8. In lake ecosystem, ammonification in nitrogen cycle is the formation of .....  
a) Ammonia from nitrates by decomposers  
b) Ammonia from nitrogen  
c) Ammonia from amino acids  
d) Ammonia from nitrates by nitrogen fixers

Q. 2 Answer the following questions (any two) 16

A) What is coral reef? Describe different types of coral reefs.

B) Describe different types of lakes

C) Describe the anatomy, histology and hormonal activities of endocrine pancreas

Q. 3 Write short notes on (any four) 16

a) Benthic Zone

b) Oligotrophic lake

c) Tectonic Estuary

d) Sulphur cycle

e) Intertidal Zone

f) Hyperthyroidism

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Q. 2 Answer the following questions (any two) 16

A) Define and give detailed account on marine benthic zone.

B) Describe different types of lakes

C) Define endocrine gland and describe hormonal activities of thyroid gland

Q. 3 Write short notes on (any four) 16

a) Adaptations in hill stream fish

b) Oxbow Lake

c) Fjord estuary

d) Thermal stratification in lake

e) Nitrogen cycle

f) Parathormone

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1. The water between the low tidemark and the edge of continental shelf is .....  
a) Nautical Zone      b) Benthic zone      c) Neuston zone      d) Neritic zone
  
2. Tectonic estuary is caused by ..... of land surface  
a) Folding and faulting      b) Slippery and muddy  
c) Rough      d) None of these
  
- 3.....type of coral reef forms a lagoon.  
a) Fringing      b) Barrier      c) Atoll      d) Soft Coral
  
4. .... is an example of lotic biome  
a) Rivers      b) Lakes      c) Oceans      d) All of the above
  
5. In hill fishes, lips are modified to form .....  
a) Suckers      b) Oral tube      c) Barbs      d) None of these
  
6. 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
  
7. Glucocorticoids is produced by the ..... of adrenal gland.  
a) Zona Glomerulosa      b) Zona Fasciculata  
c) Zona Reticularis      d) Both B and C
  
8. .... lakes has minimum productivity.  
a) Mesotrophic lake      b) Senescent lake  
c) Oligotrophic lake      d) Eutrophic lake

Q. 2 Answer the following questions (any two)

16

A) What is intertidal Zone? Describe intertidal zone in detail.

B) Describe different stages of stream development in detail

C) Define endocrine gland and describe anatomy, histology and hormonal activities of thyroid gland

Q. 3 Write short notes on (any four)

16

a) Estuarine ecosystem

b) Eutrophic Lake

c) Adaptations in hill stream fish

d) Nitrogen cycle

e) Atoll Coral Reef

f) Islets of Langerhans's

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