Yashwantrao Chavan College of Science, Karad.

B.Sc. Part III Semister-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) Hydal 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
	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

b) stimulation of the metabolism. d)	Peripheral vasodilation					
11. 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					
12. In endocrine pancreas co	ells produce insulin.					
a) Alpha cells b) Beta cells c) Delta	cells d) F cells					
13 are the factor that contributes to the carbon cycle						
a) fossil fuel combustion b) respiration c) photosynthesis d) all of these						
14 is the type of exoskeleto	on formed by corals?					
a) Hydrogen Calcite b) Calcium Car	bonate c) Limestone d) Phosphate					
15 wetland is dor	ninated by non-woody plants such as cattails.					
a) Marsh b) Swamp c) Bog d) Pond						
16. In hill fishes, eyes are						
a) Large and lateral b) Small and do	rsal c) Non-functional d) Reduced					
17. In endocrine pancreas co	ells produce insulin.					
a) Alpha cells b) Beta cells c) Delta	cells d) F cel					
18. In lake ecosystem, ammonification in nitr	rogen cycle is the formation of					
a) Ammonia from nitrates by decom	posers b) Ammonia from nitrogen					
c) Ammonia from amino acids d) A	Ammonia from nitrates by nitrogen fixers					
19. 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 are	a d) Sedimented area					
20. Benthic animals that live buried or partia	ally buried in the sea floor are					
a) infauna b) epifauna c) inflora d) epif	lora					
21. Hyperpigmentation is a sign of						
a) Addison disease b) Cushing disea	ase c) Ectopic ACTH d) Both A and C					
22. Fresh air contains approximately	percent carbon dioxide by volume.					
a) 0.01 b) 2 c) 5 d) 0.03						

23. The pelagic zone occupies the depth ofkm.									
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 theses									
25 is the largest coral reef on the earth planet									
a) Rainbow reef, Figi	b) Great Chago archipelago, India								
c) Great harrier 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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No.	

B.Sc. (Part-III) (Semester-V) (Revised) Examination, April - 2018 ZOOLOGY

		F	2	ZOOLOG	Y		
Endocrinology, Environmental Biology and Toxicology (Paper-XII) Sub. Code: 65851							
-			day, 20-04-2018 5.00 p.m.	3		Total Marks: 40	
Instructions:		1) 2) 3)	All questions a Figures to the Draw neat lab	right indicate f	ull r	narks. nerever necessary.	
Q1) S	elect	the cor	rect answer fro	m the follow	ing	and rewrite the sentences: [8]	
a)) Ic	dine is	s essential for s	ynthesis of_		hormone.	
	i)	Insu	ulin	!	ii)	Progesterone	
	iii) Thy	yroxine	į	iv)	Aldosterone	
b) T	he horr	mone insulin w	as discovere	d b	y	
	i)	Bar	nting and Best	:	ii)	Claude and Palade	
	iii) Ber	nda]	iv)	Watson and Crick	
c)gland is largest endocri				docrine glan	d in	human body.	
	i)	Pitu	uitary	:	ii)	Parathyroid	
	iii) Thy	yroid		iv)	Islets of Langerhans	
d) K	azirang	ga National Par	k is famous f	for_	·	
	i)	Bis	on	:	ii)	Rhinoceros	
	iii) Pair	nted stork		iv)	Wild dog	
e)) Sa	anjay C	Gandhi Nationa	l Park is loca	ted		
	i)	Ass	sam	į	ii)	Rajasthan Gujarat	
	iii) Mal	harashtra	j	iv)	Gujarat	
		1					

								21-40		
	f)		_shows adaptations for living in desert habitat.							
		i)	Phrynosoma			ii)	Tiger	28		
		iii)	Rhinoceros			iv)	Crocodile	Š		
	g)	Mor	phine istoxi	cant.			, 95			
		i)	Synthetic			ii)	Animal			
		iii)	Plant			iv)	Mineral			
	h)	Lake	e which has very	good p	produc	ctivity is known as				
		i)	Oligotrophic			ii)	Eutrophic			
		iii)	Distrophic			iv)	Polytrophic			
Q2)	Atte	Attempt any two of the following: [16]								
	a) Describe the histology of Islets of Langerhans and its role in carbohydr metabolism.b) Write an account on faunal adaptation of deep sea water habitat.									
c) Describe In-situ and Ex-situ conservation methods of bio								sity.		
			200				3	5		
Q3)	Atte	Attempt any four of the following:					1,6	[16]		
	a) Pesticides toxicity.						c)			
	b) Radhanagari Wildlife Sanctuary									
	c)	Fund	ctions of Prostagl	landins	S.					
	d)	Clas	ssification of toxic	cants.						
	e)	Mec	chanism of hormo	nal act	ions.					
	f) Hormones of Adrenal cortex.									
				*	*	*				
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