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B.Sc. Part—III (Semester—V) Examination ZOOLOGY

(Animal Physiology and Economic Zoology)

rime : i nree	[Maximum Marks : 80
Note :—(1)	All questions are compulsory.
(2)	Question No. 1 carries 8 marks and remaining
	SIX questions carry 12 marks each.
(3)	Illustrate your answers with suitable diagrams
	wherever necessary.
1. (A) Fill	in the blanks:
(i)	The blood of crustaceans contains ——respiratory pigment.
(ii)	When Ca ⁺⁺ binds the troponin then ——removed from actin filament.
(iii)	The warm blooded animals are called as —
(iv)	The removal of pituitary gland from the fish is called as ——— .
	called as —— 2

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12

(B)	Cho	ose correct alternative from the following:			Describe the following:		
	(v)	The raptorial legs are present in:		(s)	Inorganic fertilizers		
		(a) Spider		(t)	Hypophysation		
		(b) Mantis		(u)	Cage culture		
		(c) Lady bugs			OR		
۸		(d) Soldier beetle		(v)	Chinese circular hatchery (working)		
	(vi)	Which of the following glands contains		(w)	Rearing pond		
		β cells:		(x)	Integrated aquaculture.		
		(a) Pituitary					
		(b) Thyroid					
		(c) Adrenal			•		
		(d) Islets of Langerhans					
	(vii)	Fish fry (fries) are kept in:		-			
		(a) Nursery pond			•		
		(b) Rearing pond					
		(c) Stocking pond					
		(d) Breeding pond.					
-	(viii) Each haemoglobin molecule carries :	.•				
	-	(a) 1 molecule of O ₂					
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		(b) 2 molecules of O ₂	
		(c) 3 molecules of O ₂	
		(d) 4 molecules of O ₂ .	2
1	(C)	Answer in one sentence:	
		(ix) What is sarcomere?	
		(x) What is synapse?	,
-		(xi) What is thermoregulation?	
		(xii) What is polyculture?	4
2.	Atte	empt the following:	
	(a)	Structure of lung	
	(b)	Haemoglobin	
	(c)	Functions of blood.	
4		OR	,
	(d)	Structure of Gill	
	(e)	Hemocyanin	
	(f)	Blood plasma.	12
3.	Des	scribe structure of Neuromuscular junction.	
		OR	;
	Des	cribe muscle contraction by sliding filament	theory.
	,		12
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Describe E.M. structure of Neuron.

		OR				
	Des	cribe synapse and synaptic transmission.	12			
5. ′	Give an account on:					
	(g)	Proliferative phase				
	(h)	Structure of mammalian placenta				
	(i)	Ammonotelism.				
		OR	4			
	(j)	Estrous phase				
	(k)	Hormonal control of reproduction in male				
	(1)	Poikilothermic animals.	12			
6.	Atte	Attempt the following:				
	(m)	Economic importance of spider				
	(n)	Pests of stored foodgrains				
	(o)	Importance of Honey				
		OR				
	(p)	Soldier beetle	19			
	(q)	Economic importance of snakes				
٠	(r)	Importance of silk.	12			
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