

DBB-003-001534

Third Year B. Sc. (Sem. V) Examination

May/June - 2015 Zoology : Z-502

(Applied Zoology, Wild Life & Bio-Technology) (New Course)

Faculty Code : 003 Subject Code : 001534

Time: 3 Hours] [Total Marks: 70

Instructions: (1) Illustrate your answers with neat and labelled diagrams.

- (2) Figures to the right indicate full marks of the question.
- 1 Choose appropriate answers for the following: 20
 - (1) Scientific study of fish and fisheries is known as
 - (A) Sericulture
 - (B) Inland Fisheries
 - (C) Ichthyology
 - (D) Carp culture
 - (2) Which is the cheapest post harvesting technique in fisheries?
 - (A) Canning
 - (B) Air blast freezing
 - (C) Smoking
 - (D) Sun drying
 - (3) Which group is not responsible for producing antibiotics?
 - (A) Eubactrials
 - (B) Fungi
 - (C) Viroids
 - (D) Actynomycets

(4)	4) Which stage is infective in mango happers?		
	(A)	Adult	
	(B)	Nymph	
	(C)	Adult and Pupa	
	(D)	Adult and Nymph	
(5)	5) Exophthalmic condition of eye is symptoms of		
	(A)	Dropsy	
	(B)	Water mould	
	(C)	Coastiasis	
	(D)	Ichthyophthyriasis	
(6)	Proc	cess of killing cocoon in sericulture is	
	(A)	Reeling	
	(B)	Stifling	
	(C)	Con-killing	
	(D)	Duffling	
(7)	enine particles are known as:		
	(A)	Lecithine	
	(B)	Pearl assens	
	(C)	Chitosan	
	(D)	Isin glass	
(8)	Great achievement of IBWL is:		
	(A)	Red data book	
	(B)	CITES	
	(C)	Wild Life Protection Act 1972	
	(D)	Ram Sir site	
(9)	Whi	ch of the follwing is true for national park?	
	(A)	Grazzing allowed in some area	
	(B)	Collection of minor forest product	
	(C)	Delare by state government	
	(D)	No any right of land ownership in this area	

	(A)	Vitamin B_1		
	(B)	Vitamin B_6		
	(C)	Vitamin C		
	(D)	Vitamin A		
(11)	11) Which is incorrect pair?			
	(A)	Bharatpur : Ranthambhor Sanctuary		
	(B)	Nainetal: Jim Corbet National Park		
	(C)	24 Pargana : Sunderban National Park		
	(D)	Katchchh : Wild Life Desert Sanctuary		
(12)	12) Vaccines are produced with the help of			
	(A)	Dead Micro-organism		
	(B)	Live-attituted micro-organism		
	(C)	Toxoids		
	(D)	All of above		
(13)	Cab	bage butterfly is damage in most of plant related		
	with family			
	(A)	Solanaceae		
	(B)	Cruciferae		
	(C)	Apocynaceae		
	(D)	Malvaceae		

(10) Which vitamin is associated with protein metabolism in fish?

(14)	Air bladders of carp fishes are used to make			
	(A)	Pearl assens		
	(B)	Isin glass		
	(C)	Fish glue		
	(D)	Fish fertilizer		
(15)	Rati	o of female and male in breeding pond during		
	induced breeding is			
	(A)	1:2		
	(B)	2:1		
	(C)	1:1		
	(D)	2:2		
(16)	Red	Data Book is pubished by		
	(A)	CITES		
	(B)	IBWL		
	(C)	IUCM		
	(D)	UNESCO		
(17)	Major by-product from poultry farm is:			
	(A)	Manure		
	(B)	Egg shells		
	(C)	Feathers		
	(D)	None of above		
(18)	Which organism is caused for white spot disease in carp			
	fishe	es?		
	(A)	Aeromonas punctata		
	(B)	Costia mecalrim		
	(C)	Ichthyophtherius multifilis		
	(D)	Saprolegnia parasitica		

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		(vi)	History of aquaculture in shark		
		(v)	Gill rot		
		(iv)	Wild Life Protection Act 1972		
			and vaccine		
		(iii)	Role of Bio-technology in production of antibiotic		
		(ii)	Advantages of formulated food		
		(i)	Damage and control of mango hoppers		
(b)		Writ	se any three out of six:	9	
		(vi)	Symptoms and treatment of white spot disease		
		(v)	Brooding pond		
		(iv)	Post harvesting method by using salt		
		(iii)	Post cocoon process in sericulture		
		(ii)	IBWL		
		(i)	Fish meal and fish fertilizer as by-product		
2	(a)	Writ	te any three out of six:	6	
		(D)	Early spring		
		(C)	Winter		
		(B)	Monsoon		
		(A)	Summer		
	(20)	Cate	erpillar of Brinjal shoot and fruit borer hibernate in		
		(D)	Anthera Mulberry		
		(C)	Anthera Assama		
		(B)	Bombex Mori		
		(A)	Anthera Paphia		

(19) Which species is known as mulberry silk worm ?

		(i)	Nutrition in fish	
		(ii)	Cabbage butterfly	
		(iii)	Biotechnology in medicine	
		(iv)	Reasons for depletion of wild life and necessity	
			for its conservation	
		(v)	Induced breeding	
3	(a)	Writ	te any three out of six:	6
		(i)	CITES	
		(ii)	Breeding pond	
		(iii)	Fish glue and fish fin soup	
		(iv)	Location and fauna of marine national park of Gujarat	
		(v)	Micro-organism used in production of enzyme and amino-acids	
		(vi)	Describe physical factor affecting in inland fisheries	
	(b)	Writ	te any three out of six:	9
		(i)	Poultry product	
		(ii)	Dropsy as a fish disease	
		(iii)	Scope of Bio-technology	
		(iv)	Fish liver and body oil	
		(v)	Kaziranga National Park	
		(vi)	Damage and control of brinjal fruit and shoot bore	r

(c) Write any two out of five:

10

(c) Write any two out of five:

- 10
- (i) Bio-technology in pharmaceutical industries
- (ii) Life cycle of silk moth
- (iii) Freezing methods of fish preservation
- (iv) Jim Corbat and Sundervan National Park
- (v) Inland fisheries.