	[Time: 3 Hours]		[Marks:100]
	N.B: 1. All questions are compulso 2. Figures to the right indicate 3. Draw neat and labelled dia	ory. e full marks.	
Q.1 A) Fill in	blanks by choosing correct option.		(05)
1)	1) shows polygamous group.		
	a. Gorilla b. Marmosets		
2)	Bed bug is an example of		
	a. permanent parasite b. endoparasite c. ectoparasite		
3)	3) is an extracellular parasite.		7. 4. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
	a. Liver fluke b. Monocystis c. Plasmodium		
4)	cells are larger than other ce		
~	a. Queen b. Worker c. D		5
5) is an excellent breed of cow in India.			
	a. Sahiwal b. Murrah c. Lumb	oricus	
O 1 D) Motal	the columns I and II and reverte		(05)
Q.1 b) Maici	the columns I and II and rewrite. Column I	Column II	(05)
		a) Vermiculture	
	 Apidae Warning colouration 	b) Endoparasite	
	3) Monarch and Viceroy butterfly	c) Rock honey bee	
	4) Eisenia fetida	d) Coral snake	
	5) Ascaris	e) Batesian mimicry	
	3) Ascans	e) Batesian infinitry	
O 1 C) State			(05)
Q.1 C) State whether true or false.			(05)
₩ N N N	Classical conditioning was demonstrated in dogs by Ivan Pavlov. Plasmodium vivax is an obligatory parasite.		
	Cockroach is a type of mechanical vector.		
	\$3.D.A.4.3.D.B.G.4.2.3.2.0.3.4.3.0.3.4.4.		
4) Suspended foreign particles from milk can be removed during clarification.5) Earthworms prefer salt content more than 10% in soil.		•	
	Lardworms profes sale content more th	un 1070 in 3011.	
0 1 D) Answ	er in only one sentence.		(05)
20, 2, 1, 0, 10) Name any one dance pattern used for communication in honey bees.		(02)
CATA O TO A VE	What is filial imprinting?		
3. 7. 7. V. (). ().	What is monogenetic parasite?		
	4) What is apiculture?		
	Define vermiculture.		
	125 XX 0 X 4 70		

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Q.2 A) Describe sexual imprinting with suitable example. (10)OR A) Describe ritualization. Add a note on its significance. (10)Q.2 B) Explain **any two** of the following. (10)a) Social behaviour in Hanuman Langur. b) Instrumental learning in animals. c) History of ethology. d) Mimicry in animals. Q.3 A) Describe life cycle of *Entamoeba histolytica*. (10)OR A) Describe morphology of head louse. Add a note on pathogenicity caused due to it and (10)comment on its control measures. Q.3 B) Explain any two of the following. (10)a) Pathogenicity and control measures of Taeniasis. b) Morphology of mites. c) Mode of transmission and control measures of Rabies. d) Describe pathogenicity caused due to Fasciola hepatica and add a note on its control measures. Q.4 A) What is apiculture? Describe flora and bees suitable for apiculture. (10)A) Describe maintenance and harvesting in vermiculture. (10)Q.4 B) Explain any two of the following. (10)a) Production and economic importance of honey. b) Toned milk and whole milk. c) Market for vermicompost and scope for entrepreneurship. d) Cooling as a method of milk processing. **Q.5** Write short notes on any four of the following. (20)a) Innate behaviour in animals. b) Migration in fishes. c) Pathogenicity caused by Wuchereria bancrofti. d) Life cycle of bed bug. e) Composition of milk. f) Movable frame hive.

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