

Seat No.

[Total Marks: 70

	(d)	Answer the following question: Describe phylum mollusca with class and suitable examples.	5
3	(a)	Answer the following questions in short: (1) Name the types of canal system of sponges. (2) In Leech ovaries are located in segment no (3) type of mouthparts are found in mosquito. (4) The posterior sucker of Leech is formed by union of	4
	(b)	Answer the following question:	2
	(c)	Describe Ascon type of canal system in sponge. Answer the following question:	3
	, ,	Explain piercing and sucking type of mouth parts.	
	(d)	Answer the following question: Explain digestive system in Leech.	5
4	(a)	Answer the following questions in short: (1) Rectum is situated in segment in Leech. (2) The saliva of Leech has an anticoagulant called	4
		 (3) In hirudinaria, there is no special organ for (4) In Leech, stomach is located in segment number 	
	(b)	Answer the following question:	2
		Write a note on salivary gland of Leech.	0
	(c)	Answer the following question: Describe copulation and cocoon formation in Leech.	3
	(d)	Answer the following question: Describe nervous system of Leech.	5
5	(a)	 Answer the following questions in short: (1) Which hormone is secreted by Adrenal gland? (2) Who coined the term Chromosome? (3) If X/A ratio of drosophila is equal to 1.00 egg develop into which sex? (4) The main function of Ribosome is 	4
	(b)	Answer the following question: Write functions of Lysosome.	2
	(c)	Answer the following question:	3
	(d)	Explain the structure of Ribosome. Answer the following question:	5
	(u <i>)</i>	Explain Adrenal gland.	ี่
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6	(a)	Answer the following questions in short: (1) Who discovered Golgi body?	4
		(2) Which type of kidney is found in mammals?	
		(3) Which gland is known as Master gland?(4) Lysosomes are involved in	
		(4) Lysosomes are involved in	
	(b)	Answer the following question:	2
	(c)	Write the functions of Thyroid gland. Answer the following question:	3
		Explain Lysosome.	
	(d)	Answer the following question: Explain the structure and function of centriol and basal	5
		bodies.	
7	(a)	Answer the following questions in short:	4
·	(65)	(1) Copulation of royal couple of termites occurs in	_
		(2) Life span of worker honey bee is about	
		weeks. (3) House hold insect causes sleeping sickness	
		in human.	
		(4) The method of killing pest by using toxic gases is called as	
	(b)	Answer the following question:	2
	, ,	Explain courtship behavior of scorpion.	
	(c)	Answer the following question: Describe any three techniques of cultural control of pest	3
		management.	
	(d)	Answer the following question: Describe Rice weevil as destructing insect of human	5
		food.	
8	(a)	Answer the following questions in short:	4
		(1) Termites also known as	
		(2) Arius protects their eggs from the predators by keeping it in his	
		(3) Crop rotation and pruning is kind of pest	
		control method. (4) Winged reproductive of termites also known as	
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	(b)	Answer the following question:	2
	(c)	Define social behavior. Answer the following question:	3
	(0)	Describe types of eggs based on amount of yolk.	J
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	(d)	Answer the following question: Describe in detail chemical control of pest.	5
9	(a)	Answer the following questions in short: (1) The Vansda National Park situated in district of Gujarat. (2) Name the state animal of Himachal Pradesh. (3) Ratanmahal sanctuary is famous for species. (4) Loris tardigrandus is the scientific name of mammal.	4
	(b)	Answer the following question: What is ecosystem?	2
	(c)	Answer the following question: Write a note on Black Nilgiri Langur.	3
	(d)	Answer the following question: Explain Haemoglobinometer.	5
10	(a)	Answer the following questions in short: (1) Shoolpaneshwar sanctuary is famous for mammal species. (2) Gujarat comprises total National Parks. (3) The Nilgiri Langur categorized by IUCN red list as (4) Give scientific name of Tiger.	4
	(b)	Answer the following question: What is Detritus?	2
	(c)	Answer the following question: Describe pyramids of number with diagram.	3
	(d)	Answer the following question: Explain Velayadar Blackbuck National Park	5