LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER - **NOVEMBER 2022**

PZO1MC05 - ENTOMOLOGY AND VECTOR BIOLOGY

Date: 02-12-2022	Dept. No.	Max. : 100 Marks
Time: 01:00 PM - 04:00 PM	[

	SECTION A						
Answer ALL the questions							
1	Define	$(5 \times 1 = 5)$					
a)	Scrub typhus	K1	CO1				
b)	Trilobites	K1	CO1				
c)	Parasitic diseases	K1	CO1				
d)	Phlebotomus fever	K1	CO1				
e)	Visceral Leishmaniasis	K1	CO1				
	Fill in the blanks	(:	$5 \times 1 =$				
2	5)						
a)	is an example of insect parasitoid.	K2	CO1				
b)	An example for larvicidal fish is	K2	CO1				
c)	The chemical that blocks acetylcholinesterase in insect is	K2	CO1				
d)	Lyme disease is caused by	K2	CO1				
e)	Full form of DEET is	K2	CO1				
	SECTION B						
	Answer any THREE of the following in 500 words	(3 x 10	= 30)				
3	Describe pheromones used in pest control.	К3	CO2				
4	Explain about Zika virus genome structure.	К3	CO2				
5	Elaborate how fishes can be employed as biocontrol agents in mosquito control.	К3	CO2				
6	Explain circulatory system in insects.	К3	CO2				
7	Describe in detail about onchocerciasis.	К3	CO2				
SECTION C							
	· · ·	(2×12.5)	5=25)				
8	Illustrate and explain the pathogenicity of African trypanosomiasis.	K4	CO3				
9	Explain and trace the origin and evolution of class Insecta.	K4	CO3				
10	Elaborate the successful implementation strategy of IVM.	K4	CO3				
11	Differentiate complete and incomplete metamorphosis with appropriate examples.	K4	CO3				

	SECTION D			
Answer any ONE of the following in 1000 words		(1 x 1:	$(1 \times 15 = 15)$	
12	Summarize the different types of pesticides and critique its advantages and disadvantages.	K5	CO4	
13	Summarize the life cycle of <i>Plasmodium</i> and suggest the best mosquito control method.		CO4	
	SECTION E			
	Answer any ONE of the following in 1000 words		$(1 \times 20 = 20)$	
14	IPM is the best strategy combating Pests- prioritize and justify.	K6	CO5	
15	Compile the various types of risk assessments in pest management.	K6	CO5	

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