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Your Roll No.....

1351

B.Sc. (Hons.)/III

A

ZOOLOGY—Paper X (a)

(Applied Entomology)

(Admissions of 2004 and onwards)

Time: 3 Hours

Maximum Marks: 55

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt Five questions in all, including

Q. No. 1 which is compulsory.

- 1. (a) Define the following:
 - (i) Economic injury level
 - (ii) Bioassay
 - (iii) Synergist
 - (iv) Antimetabolites
 - (v) Quarantine

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(b)	Write the scientific names of the following insect	s:
	(i) Caster semilooper	
	(ii) San Jose scale	
	(iii) Gundhy bug	
	(iv) Gram Dhora	
	(v) Red Pumpkin beetle	
	(vi) Sandfly	3
(c)	Expand the following abbreviations:	
	(i) DDT	•
	(ii) EDCT	
	(iii) NMEP	
	(iv) WHO	
	(v) USDA	
	(vi) ICAR	3

	(d)	Match the following:		•
		(A)	(B)	
	•	Housefly	Xenopsylla	
		Nasute	Maggot	
		Plague	Achoea Janata	
		Anopheles mosquitoes	Termites	
		Caster plants	Heat spots	
		Bulk storage	Plasmodium	3
	(e)	Differentiate between the following	ng:	
		(i) Maggot and Grubs		
		(ii) Parasites and Parasitoids	.,	
•		(iii) Primary host and Secondary	host	
	<i>:</i> .	(iv) Vector and Carrier	•	
		(v) LC-50 and LD-50	:	5
2.	(a)	Name different species of Honey Which species gives maximum ho		•
	(b)	Give an account of Langstroth'		
		different diseases of honey bees.	2+4+3	

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3.	Name the insect pests of cotton by giving their scientific names.				
	Des	cribe the life history, damages and control of any one of the			
	pest	s you studied.			
4.	(a)	What are the factors that govern the safe storage of food grains?			
	(b)	Describe the life history and control of Callosobruchus			
		Chinensis. 4+5			
5.	(a)	Mention at least six diseases spread by Dipteran insects. give their pathogen's names and mode of transmission.			
	(b)	Write an account of sterile male release technique for insect			
		control. 6+3			
6.	(a)	Define biological control and briefly discuss its merits and demerits.			
	(b)	How can biological and chemical control be integrated in IPM?			
7.	Write	short notes on any three of the following:			
	(i)	Cultural control;			
	(ii)	Biotic theory of periodicity in Locusts;			
	(iii)	Collection and Preservation of insects;			
	(iv)	Legislative insect control.			