

## GIET UNIVERSITY, GUNUPUR – 765022

RS19BSCAG567

Total		er of Pages: 2  2 <sup>nd</sup> SEMESTER REGULAI  FUNDAMEN	AR-2018 R EXAMINATIONS, SEPT ENT-121 NTALS OF ENTOMOLOGY	B.Sc (Ag)	
	Tim	e : 2 Hours		Maximum: 50 Marks	
		(Answer al	l questions of Section – A)		
			SECTION – A		
	<b>Q.1</b>	Fill up the Blanks with suitable and i	meaningful word(s):	$[10\times0.5\ = 5]$	
	a	The immature stage of hemi-metabo	lous insects is termed as	···································	
	b	Honeybees have	type of mouthparts.		
	c	The sulcus around the compound eye	e is	 	
	d	Plumose antenna is found in			
	e	Ladybird beetles belong to the family			
	f The aggregate of the animal species that grow spontaneously within a given region is called				
	g	sampling is employed for localized.	or the insect pests whose initial	al appearance is	
	h	The fungus,	is known as white	museardine.	
	i	Chemicals that block cellular respira	tion in insects are called as -	poison.	
	j	The insect used for killing congress	grass is		
	Q.2	2. Define or Explain the following in o	one or two sentences	$[5 \times 1 = 5]$	
		<ul><li>a) Haltere</li><li>b) Qualitative survey</li><li>c) Hyper parasitoid</li><li>d) Scavenging insects</li><li>e) Biotic potential</li></ul>			
	Q.3	3. Match the following		$[10 \times 0.5 = 5]$	
		Column – A		mn –B	
		<ul><li>(a) Synthetic pyrethroid</li><li>(b) Pollinators</li></ul>	Microbial pestici Wind	de ()	
		(c) Light trap	Behavioural con	trol ()	
		(d) NPV	Male cricket	( )	
		(e) External genitalia	Cypermethrin	( )	
		(f) Hibernation	Mechanical contr	rol ()	
		(g) Anemotropism	Ovipositor		
		(h) Fossorial leg	Protective mecha	` /	
		(I) Reflex bleeding (i) Pheromone	Low temperature Stingless bee	( )	



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Q.4. Write **TRUE** or **FALSE** against the following statements.

 $[10 \times 0.5 = 5]$ 

- (a) Spiracles are present on tergum.
- (b) Peritrophic membrance is present in mid gut.
- (c) Juvenile hormone is secreted by corpora allata.
- (d) Elytra are seen in order hemiptera.
- (e) In parthenogenesis, females produce only females without mating.
- (f) Solitary bees are inferior pollinators than social bees.
- (g) In inoculative release large number of natural enemies are released at a time to control the pest immediately.
- (h) The ammensal is affected and the host remains unaffected in ammensalism
- (i ) The shape of *Bt* endotoxim is spherical.
- (j) Cement layer is a part of endocuticle.

## SECTION – B

(Attempt any **five** questions. Each question carries equal marks)

 $[5 \times 6 = 5]$ 

- Q.5 Describe the characteristics of order Lepidoptera. Name four families of this order having agricultural importance.
- Q.6 Describe with diagram the generalized female reproductive system of insects.
- Q.7 Name different components of environment. Briefly describe the intraspecific relationships found insects.
- Q.8 Classify insecticides based on mode of entry and chemical nature. Briefly describe the mode of action of organophosphates.
- Q.9 What are the different techniques in biological control? Describe conservation.
- Q.10 Name the components of 1PM. Briefly discuss the cultural methods.

