

## Final Exam. For 2<sup>nd</sup> year students '' Molecular Biology '' May 2024



Zoology Department 1/6/2024

201ش "Entomology& Biological control"

Time: 1 hour

Mark: 60

## nswer the Following Questions:

الإمتحان في صفحتين.

1	n one: Choose the correct answer e. g. 3 - d (10 mar Which structure is NOT part of the head capsule?						
	a	Pronotum					
	b	Clypeus					
	C	Tentorium					
	d	Vertex					
2	Which structure is INCORRECTLY paired with its function?						
	a	antenna tactile					
-	b	Mandible grinding					
	C						
	d						
3	An insect's head is specialized for:						
	a	Reproduction and digestion					
	b	Ingestion and perception					
	c	Orientation and locomotion					
	d						
4	According to metamorphosis, butterflies are grouped as						
	a	ametabolous					
	b	holometabolous					
	c	paurometabolous					
	d	hemimetabolous					
5	To which body segment are the halteres attached?						
	a						
	b	Mesothorax					
	c	Metathorax					
	d	First abdominal					
6	The hypopharynx separates the mouth opening from the:						
	a	Cibarium					
a.	b	Labrum					
	c	Mandibles					
	d						
7	The tibia lies between:						
100	a	The tarsus and the femur					
7.0	b	The femur and the coxa					
	c	The coxa and the trochanter					
	d	The trochanter and the femur					
8	The dorsal sclerite of each abdominal segment is called a:						
	a Coxite						
	b	Pleurite					
-	1						
-	c						
	d	olemute					

	pical insect?									
. 4	a Genital opening									
		b.	Paramere							
	c Cercus d Epiproct									
	10 Which mouthparts bear palps?									
	a Labrum and labium									
		b	Labium and maxilla							
		С	Maxillae and mand							
_		d	Mandibles and labr	um						
	uesti						(30 mark)			
a) IVI				left column with	its correct term in the	righ				
4 1			1-G	-			(10 mark)			
1	The	owe	st population density	, which will cause	e economic damage.	A	Hyperparasite			
2	The c	ieve	lopmental process by	which a first-inst	tar immature stage	В	Collembola -			
3	is tra	nsto	rmed into the adult.	•						
4	Too	ne II	nterference of man fo	r the control of in	sect population.	C	Applied control			
*	15 a	aras	sitoid which develop	s on another paras	sitoid.	D	Multiple parasites			
5	indiv	idu	ividuals of a given p	E	Metamorphosis					
6	Micr	oorg	anisms include fung	i, bacteria and vir	rus that use insects as					
	HOSE	orga	inisms and usually k	·F	Economic damage					
7	Sprii	ngtai	l is always associated	G	Biological control					
8	Ovipositor performs for digging tunnels as in						Superparasitism			
9			ous insects feeding al		_	Economic injury				
				I	level					
10	The meas		unt of injury, which	J	Monophagous					
						k	locusts			
119		•					Entomopathogen			
			A. Where you would				(20 mark)			
		- 1	3. What is its princi	pal function?						
			Structure	Where	Principa	al fu	nction			
1	Hau	stell	um							
2	Poll	en b	rush							
3	Trac	heal	gills			44				
4	Sheath & stylets									
5	Han									
6	Elyt	-								
7	Flag		m							
8	Flab									
9	10 Page 1 Strong 1 Co. 100 Co.	Section 1997 Section 2	glegs			No.				
10	Van					-				
			hree:				(20 mark)			
Que	25110		autociano de maneiro	in a aposios abaras	ctoristics that are often	evi	dent prior to introduct			
				ing species charac	ciclistics that are often		(10)			
			l control?	nocts in our life?			(10)			
в. D	iscus	stne	e role of injurious in		نتهت الأسئلة	1	()			
			T. A. C. P. T.	أطيب الأمنيات بال		Vael S	alah			
			Prof. Dr. Moh	ammed. El Bokl Head of Department: I	Dr. Basma Gabr Dr. I Prof. Dr. Ola Abou samak	,				

**CS** CamScanner