

FINAL TERM EXAM. Jan 2025



2nd Zoology & Chemistry Students Introduction to Invertebrates 221Z

برنامج الحيوان و الكيمياء (المستوى الثاني) مقدمة في علم اللافقاريات

Department: Zoology	Mark: 90	Time: 2 Hours	Date: 23/1/2025
Answer the Following Questio	ns: (Exam in Two	Pages)	w-w = 8.8
Question One: Choose th			2.5 Marks/2.5 each)
A CONTRACTOR OF THE CONTRACTOR		The second secon	September 1
1- The provided image illustratand its function is	res Million		
a) a water vascular system & distribution of nutrients		scular system & sensor	y c) Both a & b
2- Extinct invertebrates belong			••••
a) Arthropoda & Trilobita		la & Crustacea	
3- The numbered parts of this i areand		1 2	
a) Dorsal and parapdial blood vessels	b) Intestinal and blood vessels	parapdial c) Inte	stinal and parapdial ation
	in b) They have a skeleton. egmented and have b b) Oligochalassand	n internal c) ristles setae neta l subphylum ura & Chelicerata	They are protostomes. c) Polychaeta c) None of them
7- The appendage responsible of its position of body segment is . a) 2 nd Maxilliped & 8 8- They are microscopic aracha a) Mites 9- Squids and Octopuses belon a) Gastropoda	b) 1 st Max nids and feed on skin b) T g to Class	illiped & 7 debris and some live in	c) 1 st Maxilla & 5
10- The function of shown ima	ge is		
a) Digest the food.	b) Scrape algae.	c) Absorb th	e nutrients.
11- Which type of spider silk gl	ands that responsible	e of spiral parts of stick	xy-web?
a) Flagelliform glands	b) Aggregate glai	nds c) Aciniform	glands

a) sea cucumbers13-Holothuroides invertebra		c) sea lilies		
a) Arthropoda	b) Mollusca	c) None of them		
Question Two: Write True	($$) or False (X) in the follo	owing sentences: (42.5 Marks/2.	.5 each)	
1- Chitons have separate se	xes, fertilization is external a	nd have trochophore larvae.	()	
2- The role of Tubuliform glands is wrapping silk and outer wall.				
3- Most molluscs are of mai	rine and terrestrial habitats	with 110.000 species.	()	
4- The shell of Chitons prov	ides protection, defense and	assists in locomotion.	()	
		$\frac{1}{2}$ $\frac{3}{3}$		
5- The numbered parts are	offerent wessels			
ostium, heart and sternal si			()	
ostium, neart and sternar si	ius respectively.			
6- The female genital openi	ngs of Crayfish are located a	t number 5 under the heart.	()	
		lorotica belongs to Annelida.	()	
8-Spiders get their colour f			()	
9- Oysters are regarded as			()	
		*	()	
10-The role of starred parts quantities of blood until dig		THE PROPERTY OF THE PARTY OF TH		
11 00 1: 00 1	1, 5	4 •	(
11- The nauplius of Cyclops	_		()	
		chewing the food and collectively.	()	
	restrain the growth rate of	one gonad in both male and female.	()	
14- Some sea uremin toxins	restrain the growth rate or	tumor cens.	()	
		$\sqrt{3}$	()	
15- The numbered parts ar	e 2 nd antenna, uterus and eo			
sac respectively.	a A			
Sac respectively		**************************************		
	· live			
16- The spider web used in	some medical equipment wh	nich used in ophthalmology.	()	
	cal leech is carried by many		()	
Question Three:	(15 Marks)			

• Compare between the circulatory system of *Hirudo* and Chiton mentioning type of circulation of them.

Best of Luck lity | I will |
Examiner: Ass. Prof. / Shereen Ahmed Fahmy |
Head of Department: Prof. Dr. / Ayman Hyder