5.	A type of connective tissue where fat cells for	
		(,)
6.	A type of neurons that transmits the nerve is	
	or glands.	()
7.	A process of keeping balanced internal body	processes in a changing habitat.
		()
8.	The movement of molecules or ions from lo	w to high concentration across
the	e cell membrane.	()
9.	Junctions between neurons where nerve imp	oulses are transmitted
		()
10	. Defense cells in Cnidaria	
		()
<u>II</u>	(B) Complete the following sentence	es – (5 marks)
	Homeostasis is controlled by	
	Epithelial tissues receive nutrients by	
cha	aracterized by its ability to replace damaged t	issue through
3.	Alveoli of lungs are lined by	epithelial cells.
4.	The deficiency of insulin in blood causes a di	sease known aswhile
T4	deficiency causes	
5.	A ligament connects	while a
ter	ndon connects	•••••
III: A	nswer the following	(12 marks)
	write notes on massive transport	
•••••		
*******		••••••
•••••		
•••••	•••••••	•••••
•••••	••••••	
	•	

(A) (1) Type of symmetry: Identify sample Phylum: (2) Type of circulatory system. This type of circulatory system is present in Phylum.	(B) Label 1 Label 2 Label 3 Label 4
(C) (1) Identify the C.T	(D) Identify the muscular tissue List 3 characteristics a- b- c-
(E) Draw a labeled diagram of a bipolar neuron	(F) Draw a labeled diagram of a mitochondrion

By Drs. Zeinab, Safaa and Ahmed

With our best wishes



Assiut University
Faculty of Science
Zoology Department



First Semester General Zoology Exam /January/2017



Time: 2 hour Level: First

Course Code: 100Z

Answer the following questions (50 marks)								
	I: Choose the best single correct answer (10 marks)							
1.	· ·							
	a) Annelida b) Po	orifera	c) Ciliophora	d) Apicomplexa				
2.	A solid mass of 16-	64 cells formed by	cleavage is	·····				
	a) Blastula	b) Gastrula	c) Morula	d) Blastocoel				
3.	has a bil	ayer structure and	present in the cell.					
	a) Golgi complex		b) Cell membrar	ne				
	c) Centriole		d) None of them	L				
4.	Nerves penetrate	epithelial tissue	••••					
	a) True		b)]	False				
5.	The first invertebra	ites to develop join	ted legs are	•••				
	a) Sponges	b) Annelids	c) Flat worms	d) Arthropods				
6.	is a thr	ee layered embryo	•					
	a) Cleavage	b) Gastrul	a c) Blastula	d) Morula				
7. 7	The coelom is prese	nt in	•••					
	a) Human	b) Insects	c) Fasciola	d) Both a and b				
8. 7	Which of the follow	ing cell organelles	is surrounded by tw	vo membranes?				
	a) Mitochondrion	b) Cell membrane	c) Nucleolus	d) All are true				
9. l	oinary fission is a ty	pe of	- Parameter - Para	-				
	a) Sexual reproduction in Amoeba b) Sexual reproduction in Trypanosoma							
	c) Asexual reproduc	ction in Protozoa	d) None of them					
10.	The Head of a ph	ospholipid molecu	le is					
	a) Hydrophobic	b) Hydrophilic	c) Neutrophilic	d) Hydrostatic				
11.	11is present only in the animal cell and play a role in cell division.							
	a) Lysosome	b) Ribosome	c) Centriole	d) Cell membrane				

12.	Which organe	lles modify, sort and	l package proteins in	the cell?
	a) Mitochondr	ria b) Ribosomes	c) Golgi complex	d) Lysosomes
13.	. How many div	visions are required	to go from a zygote to	64 cell
	embryo stag	ge?		
	a) 2	b) 4	c) 5	d) 6
14.	. Which of the	following organelles	has its own DNA?	
	a) Centrioles	b) Lysosomes	c) Mitochondria	d) All are false
15	. What type of	epithelial cells is tall	er than they are wide	?
	a) Squamous	b) Columnar	c) Stratified	d) Cuboidal
16	. Which one of	the following is high	ly vascularized?	
	a) Cartilage	b) Simple epitheliur	n c) Stratified epithel	ium d) Areolar C.T.
17	. Spinal cord or	riginates from	•••••	
	a) Endoderm	b) Mesoderm	e) Ectoderm	d) Mesoendoderm
18	. Which of the	following is the corr	ect scientific name for	a house cat?
	a) felis dome	esticus	b) Felis Domesti	icus
	c) felis Dom	esticus	d) Felis domesti	cus
19	. The right seq	uence of animal dev	elopment is	
	a) Fertilizati	on>Gametogenesis>	Cleavage>Blastula and	gastrula formation
	b) Gametogo	enesis>Fertilization>	Cleavage>Blastula and	gastrula formation
		_	ertilization>Blastula an	•
20			ula and gastrula format	
20				
(meth				
** minutes	CONTRACTOR OF CONTRACTOR OF CONTRACTOR		the scientific expres	Not applicable to the territor of the foreign Table to the College of the College
	llowing			(5 marks)
1.	Excretory cells	of Platyhelminthes		
			()
2.	A process in a	nimal development in	which organs are forn	ned from embryonic
	layers.)
3.	A kingdom of l	ife in which organisn	ns are unicellular	
)
4.	A group of the	same kind of tissues	that perform a job in th	e animal's body.
			/	· · · · · · · · · · · · · · · · · · ·

2.	Compare	between	the	thyroid	and	parathyroid glands
	Compare	Doctif Con	****	11171014	*****	paracity total Staticas

	The thyroid gland	The parathyroid gland
a) Hormones		
b) Function		
(mention one)		

3. Structure and function of the endoplasm	nic reticulum
•••••••••••••••••••••••••••••••••••••••	
	•••••••

4. List 5 characters of Chordata	
	10 mg/
5. Connective tissue fibers	
***************************************	<u> </u>
	•••••
	•••••
•••••••	•••••
•••••••••••••••••••••••••••••••••••••••	
***************************************	***************************************
***************************************	• • • • • • • • • • • • • • • • • • • •

 4- Fertilization of male and females gametes of <i>Plasmodium</i> sp. occurs in human blood 5- Intermediate host is the host harbouring larve stages 	· ()
of helminthes	()
6- Infective stage of Fasciola gigantica is cercariae	()
D- III- Answer the following question: (illustrating your answer with labeled drawings whenever possible)		
1-Write short notes on <u>Two only</u> of the following:	(10 1	narks)
a- The mode of infection with Toxoplasma gondii.		
b- Main sources of parasitic infection.		
c- Prevention & control of Schistosoma sp. (Bilhariza).		
2- Differenatiate between two only of the following:	(10 r	narks)
a - Taenia solium and Diphyllobothrium latum scolices.		
b- Fasciola and Schistosoma cercaria.		
c- Entamoeba histolytica and Giardia lamblia trophozoto	es	
3- Write briefly on two only of the following:	(10 r	narks)
a- Sexual cycle of Plasmodium sp. in stomach of mosqui	ito.	
b- Laboratory diagnostic stages of the following parasit Ascaris lumbricoides-Schistosoma haematobium-Hyme		is nana
c- Infective stage and mode of infection of the following Trichocephalus trichiurus-Enterobius vermicularis-Fasci	_	
Good luck	ps	·····
Prof. dr., Gamal H. Abed		
A roje wrey Current RECEASED		

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Assiut University
Faculty of science
Zoology Department



Final examination Course number 321 Z (Parasitology)

Time: 2 hours

June 2017

Answer the following question (Write the answer only in your paper)
A- Fill in the blanks: (8 marks)
1- The intermediate host of Schistosoma haematobium is
2- Adult worms of Wuchereria bancrofti occur inthey
transmitted byand their adult female laying larvae termed
3- Entamoeba gingivalis lives inbut Entamoeba coli lives inthey feed on
B- Choose the one correct answer: (6 marks)
1- Pirenella conica snail is intermediate host of (Schistosoma haematobium S. mansoni- Fasciola hepatica – Fasciola gigantica - none of them)
2-Heterophyes heterophyes is the trematode parasites, to complete its life cycle requires (four hosts- five hosts- six hosts - none of them)
3- The insect vector of <i>Trypanosoma gambiense</i> is (mosquito- <i>Triatoma</i> - house fly – sand fly- none of them)
4- The second intermediate host of <i>Diphyllobothrium latum</i> (<i>Cyclops- cattle</i> Sheeps - <i>frogs</i> -none of them)
5- Man acts as a final host in (<i>Plasmodium</i> sp. – <i>Toxoplasma gondii</i> – <i>Echinococcus granuloses</i> - Cysticercosis - none of them)
6- Mosquito insect acts as final host in (Trypanosoma gambiense-
T. cruzi - Leishmania tropica - Giardia lamblia - none of them)
C- Put a suitable $(\sqrt{\ })$ or (X) adjacent to the following: (6 marks)
1- Zoonoses, are the diseases transmissible between man and other animals ()
2- Final host, is the host harbouring sexual forms of Protozoa ()
3- Infective stage of <i>Trichomonas vaginalis</i> is trophozoite ()

IV: Answer the following

(6 marks)

1. Complete the missing parts in following table

Cytoskeleton	1	2
		warer
Thicknes		
Function		
Type of protein		
- Jpc or protein		

2. Complete the following table

		ent of the contract of the con
	Platyhelminthes	Nematoda
Digestive system		
Body cavity		
Body shape		
Excretory system		

3. Complete the following table about hormones

Hormones	Function of the hormone	The secreting gland
Melatonin		
Adrenaline		
Glucagon		••••
TSH		

5.	5. A type of connective tissue where fat cells form most of the tissue		
		()	
6.	A type of neurons that transmits the nerve		
	or glands.	()	
7.	A process of keeping balanced internal boo	dy processes in a changing habitat.	
		()	
8.	The movement of molecules or ions from	low to high concentration across	
the	e cell membrane.	()	
9.	Junctions between neurons where nerve in	npulses are transmitted	
		()	
10	. Defense cells in Cnidaria		
		()	
П	: (B) Complete the following senten	ces – (5 marks)	
		*	
1. Homeostasis is controlled byand			
2. Epithelial tissues receive nutrients byand it is			
characterized by its ability to replace damaged tissue through			
3.	Alveoli of lungs are lined by	epithelial cells.	
4. The deficiency of insulin in blood causes a disease known aswhile			
T4	T4 deficiency causes		
5.	A ligament connects	while a	
ter	ndon connects	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
III: Answer the following (12 marks)			
1. write notes on massive transport			
•••••		er .	
•••••			