## (Q2): Put true (T) or false (F)

61	The microfilaments are made of actin protein.						
62	The membranous organelles participate indirectly in cellular metabolism.						
63	Both glycolipids and glycoproteins together form what is called cell coat						
64	In the liver, SER are responsible for neutralizing toxins.						
65	Golgi receives newly made proteins and lipids from mitochondria						
66	According to the kind of secretion, glands are classified into serous, mucous and waxy.						
67	The neuroglia are the structural and functional units of the nervous system.						
68	White fibrocartilage is present in the intervertebral discs.						
69	White adipose tissue contains primarily many small lipid droplets.						
70	Cardiac muscles contract spontaneously.						
71	The 2 <sup>nd</sup> pair of wings in insects is mesothoracic.						
72	In the invertebrates the blood flows backward in the ventral blood vessel.						
73	Micronuclei in Paramecium are responsible for metabolic and developmental functions.						
74	Oligochaeta are characterized by the presence of parapodia.						
75	All Platyhelminthes are hermaphrodite, triploblastic and acoelomate animals.						
76	TSH is secreted from anterior lobe of pituitary gland.						
77	The highest level of testosterone is at 30 years old.						
78	Type 2 diabetes mellitus usually develops after age 40.						
79	Estrogen is known as the hormone of pregnancy.						
80	Spermiogenesis is the series of changes resulting in transformation of spermatids into						
	sperms.						

With Our best wishes

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48 It is Playing the major role in the development of female secondary sex characteristics									
	a) LH	b) Estrogen	c) Progesterone	d) FSH					
49helps in maintaining immune system health and it has antiaging properties.									
	a) Thyroxin	b) Melatonin	c) Growth hormone	d) Adrenaline					
				smaliteroim sitt 118					
50	Glucose hemostasis	Glucose hemostasis is regulating by							
	a) Thyroxin	b) Insulin	c) Glucagon	d) Both (b & c)					
51	Prolactin secreted f	rom which induces milk p	roduction.	ALIE TO AL ORIGINAL BO					
	a) Anterior pituitary		c) Adrenal cortex	d) Thyroid gland					
		· I AT A A A A A A A A A A A A A A A A A	DDECT?	THE OF BRIDGOOM . OR					
52		ving about Testosterone is <u>INCC</u>		67 The neurogila arr					
	a) Peptide hormone b) Has protein anabolic action								
	c) Increases red blo			arr acounties arrayy 1 80					
53		llowing hormones increased at s		d) Both (a & c)					
	a) Cortisol	b) Thyroxin	c) Adrenaline	d) Both (a to c)					
54	Increasing secretion	of growth hormone over norma	il range after puberty lead	ling to					
	a) Goiter		c) Gigantism	d) Acromegaly					
55	Daughter cells resul	ting from are diploid an	d genetically identical.	o oto monitorigitis 8					
20	a) Miosis	b) Mitosis	c) Both (a & b)	d) None of them					
56	Sperm can penetrate	e ovum to fertilize it by the help	of	I bolstook a HET . o					
	a) Nucleus	b) Acrosome	c) Middle piece	d) Tail					
57	Twins with higher ri	sk of complications during preg	nancy are	n Propo 2 diabetes n					
	a) Dichorionic twins	b) F	Fraternal twins						
	c) Monoamniotic tw	ins (MoMo) d) M	Ionochorionic twins	tworrs et naffirmen   s					
58	Mammals eggs belor	ng to type.	and the second s						
	a) Isolecithal	b) Centrolecithal	c) Telolecithal	d) None of them					
59	Gametogenesis occu	rs in	and Administration of Section 2017						
	a) Testis	b) Ovary c) gonad	d) All perv	vious choices are correct					
60	is repeated	mitotic divisions occurs during	embryonic development.	DVS / CRIM					
	a) Blastula	b) Gastrulation	c) Cleavage	d) Organogenesis					

34	Tunicates belong to phy	lum					
	a) Mollusca	,	c) Vertebrata	d) Chordata			
35	classify animals according to their way of living, their habitat and their body parts						
	a) Ray	b) Aristotle	c) Linnaeus	d) Whittaker			
36	Arthropods are characte	erized by the presence o	f				
	a) Lateral nerve cord	b) Dorsal nerve cord					
	c)Bilateral nerve cord	d) Ventral nerve core					
37	are characterized by the presence of gastrovascular cavity often divided with septa.						
	a) Arthropoda	b) Nematoda	c) Cnidaria	d) Chordata			
38							
	a) Archaeocytes of sponge	b) Nematocyte	s of Cnidarians				
	c) Gills of fishes	d) Nephridia of	Annelida	SHIDOMAN (A)			
39	The three domain system	includes	dilacolna (a	enhactor (a			
	a) Archaebacteria – Eubac	teria – Protista	b) Archaea – Bacteria – Eukarya				
	c) Fungi – Plantae – Anim	alia	d) Monera - Protista - Apicomplexa				
40	are multicellular	organisms with no tissu	е петичи				
	a) Eumetazoa	b) Protozoa	c) Parazoa	d) Mesozoa			
41	Apicomplexa are		talogiau sobioso (b				
	a) Ectoparasites	b) Endoparasites	c) Free living	d) Autotroph			
42	are pseudocoeloma	ate, unsegmented, triplo	blastic animals with bilat	eral symmetry			
	a) Trematoda	b) Cestoda	c) Nematoda	d) Turbellaria			
43	have open circulatory system and have no chaeta						
	a) Hirudina	b) Oligochaeta	c) Polychaeta	d) Chordata			
44	Discs of the vertebral col	umn are derived from t	he				
	a) Nerve cord	b) Spinal cord	c) Notochord	d) Pharyngeal pouches			
45	Insects are		Figurities - exitment				
	a) Cephalopoda	b) Gastropoda	c) Octapoda	d) Hexapoda			
46	Which one of the follows	ing hormones has anti-i	nflammatory actions?	d) texodomic grou			
	a) Glucagon	b) Thyroxin	c) Aldosterone	d) Cortisol			
47	Cretinism disorder which charcharized by Reduction of metabolic and growth rates results from						
				in sponges, sperms and s			
	a) Decrease in GH secretic	1	b) Increase in GH secretion				
	c) Decrease in Thyroxin se	ecretion in children	d) Increase in Thyroxin sec	retion in adults			

26	This figure refers to		The state of the s	SHOW OF		
	a) areolar connective tissue		nnective tissue	10 TO		
	c) fibrous connective tissue	d) reticular co	nnective tissue			
27	This figure refers to		biocovieu ismaV (b			
	a) osteoclast cell	b) osteocyte				
	c) osteoblast	d) osteogenic cell		En Williamstry State and S		
28	This figure refers to	gland	ge b) Nematocytes	(6): (90)		
	a) merocrine	b) apocrine				
	c) holocrine	d) endocrine				
	Bacteria – Entorva rollata – Apicomolexa					
29	This figure refers to	neuron	asset on the excinegro a			
	a) unipolar	b) multipolar	2)			
	c) bipolar	d) pseudo- unipola	r			
	ricoslancia (b.			as the property of		
30	This figure refers to	Annina prient	sate, ansegmented, triplos	attention with the second		
	a) simple squamous epitheliu	m should be to the control of the co	b) transitional epithelium	0/		
	c) pseudostratified ciliated co	lumnar epithelium	d) skeletal muscle	10/0/50/6/69/61/4		
31	Order is a	202233	di mort bertret from the	4 Discs of the vertebrat co		
	a) Group of related sp	a) Nerve cord				
	b) Group of related fa	milies		announce of the state of the		
	c) Group of related or	ganism		a) Cephalopoda		
	d) taxonomic group of	f any ranking	or included has and en-	6 Which one of the follow		
32	Molluscs are anir	nals	maxayatt (d	nogeouf O (a		
	a) Deuterostome b	) Astomata	c) Protostome	d) None of the previous		
33	In sponges, sperms and eggs derived from					
	a) Choanocytes b	) Archaeocytes	c) Pinacocytes	d) Sclerocytes		

13	The molecules make the cell membrane less permeable and decrease flexibility.						
	a) cholesterol b) carbohydrate	c) lipid	d) glycoproteins				
14	Lysosomes contain to breakdown waste materials.						
	a) glycoproteins b) ATP energy	c) digestive enzymes	d) all of them				
15	is the movement of molecules	against their concentration gradient	, assessed to whom				
10	a) passive transport b) facilitated diffusion	on c) simple diffusion	d) active transport				
16	There is no connective tissue in the central ne	ervous system; instead, there are the	*******				
lik	a) fibers b) neuroglia	c) matrix	d) plasma				
17	No centrioles are in the cytoplasm of the	cells.	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS				
17	a) nerve b) mast	c) plasma	d) muscle				
18	acts as a reservoir for calcium.	policina de la companya del companya de la companya del companya de la companya d					
10	Similar fix		A) lumanla				
	a) Cartilage b) blood	c) Bone	d) lymph				
19	is a firm, rigid, flexible and dense t	type of connective tissue with poor h	lood supply.				
	a) Bone b) Blood	c) Cartilage	d) Lymph				
20	cells produce histamine and hepari	n.					
20			d) Mast				
		c) Reticular	u) wast				
21	The tissue is formed of cells, fibers and matrix.						
	a) epithelial b) muscular	c) nervous	d) connective				
22	and the second s						
	2461111000510	c) sarcolemma	d) axolemma				
		The state of the s					
23	tissue covers a surface or lines a cavity or forms glands.						
	a) Epithelial b) muscular	c) nervous	d) connective				
24	In epithelium, the superficial cells may change temporarily into squamous cells.						
	a) simple b) transitional	c) columnar	d) cuboidal				
25	This figure refers to						
	a) smooth muscle b) cardiac m						
	c) skeletal muscle d) fibrous cor						
C) Skeletal Husele							
		M. C.	The rain and				



Assiut University
Faculty of Science
Zoology Department



Final exam General Zoology 20/1/2025 (6) pages



Time: 2 hours Level: First Course Code: 100Z Marks: 50

(01).	Choose	the	hest	single	correct	answer
(VI):	Choose	CHIC	nest	Singic	COLLECT	SEALD IN CI

(30 marks, half mark for each)

1	The DNA in prokaryo	tic cells is					
	11110011	b) circular	c) cluster	The same of the sa			
2	Before cell division, the centrioles Themselves						
		b) triplicate	c) divide	d) migrate			
3	On the outside of the	cell membrane,	attached to some prote	ins and lipid			
	a) cholesterol	b) receptors	c) channels	d) chain of sugar			
4	The cell membrane is	made of mix of proteins	and				
	a) carbohydrates	b) glycoproteins		d) lipoproteins			
5	The transport in whic	h larger materials are en	ter or exit from the cells is c	alled			
	a) diffusion		c) passive transport	d) passive transport			
6	The lipid gives the cell	membranes their	***************************************	-			
	a) conductivity	b) permeability	c) movement	d) flexibility			
7	Glycoproteins make as on the cell membrane						
	a) pores	b) receptors	c) skeleton	d) fibers .			
8	The nucleus is surroun	ided by two membranes,	together known as	·· 19703 18814			
	a) nuclear membranes	b) nuclear body	c) nuclear envelope	d) nucleolus			
9	The ribosomes are for	rmed in:	m, the superficial cells may				
	a) nucleolus	b) nucleus	c) cytoplasm	d) endoplasm			
10	The proteins that stay	in the cytosol are made l	oy:				
	a) bound ribosomes	b) free ribosomes	c) RER	d) SER			
11	The me	embrane of mitochondria	forms folds which are calle	d cristae:			
	a) inner	b) outer	c) ATP	d) intermediate			
12	The tales of phosphol	ipid molecules are know	as:				
	a) hydrophilic	b) lipophilic	c) hydrophobic	d) lipophobic			