31 December 2017 31 December 2017

	شابتر ۱۰		
1. Control body temperatur	e and wate	r bala	ance as apart of
A) Cellular respiration	<i>B</i> )	Photos	synthesis
C) h <u>omeostas</u> is	$D)$ $\lambda$	None c	of the above
2 increase metabolic	rate in <u>bir</u>	ds an	d mammals
A) S <u>hiv</u> ering	B) .	Increa	se physical activity
C) Hor <u>mona</u> l changes		all of t	he above
3 have the	nternal solu	ıte co	ncentration as seawater
$A)$ osmoregulators. $\bigstar$	LB)	osmo	conformers.
C) osmoinformers. <b>⊀</b>	<b>X</b> D)	hyperi	tonic.
4. Birds dispose the nitroge	enous waste	e in tl	he form of
Uric acid	<i>B</i> )	Urea	
C) Carbonate	D) t	here is	s no answer
	ابتر ۱۲ جزء ۱	û	
5 preserves chromos	ome numb	er in	eukaryotic cell
A) Meiosis	UB)	Mitosi	is
C) Oxidation	D)	None (	of the above
6 stage of cell division	on in which	the o	cytoplasm divides into
two cells			
A) Cytokinesis	B) .	Meiosi	; S
C) Crossing over	D) .	Interki	inesis
7. When cells are <u>not dividi</u>	ng,the gene	etic m	aterial is <u>decondens</u> ed
and is called			
A)Chromatin	B)(	Chrom	osome
C) Lysosome	D)	None (	of the above
8. When cells are dividing,	the g <u>enetic</u>	mate	rial is condensed and is
called			
A) Chromatin	LB)	Chrom	osome
C) Lysosome	D) I	None o	of the above

للللبات الطبين

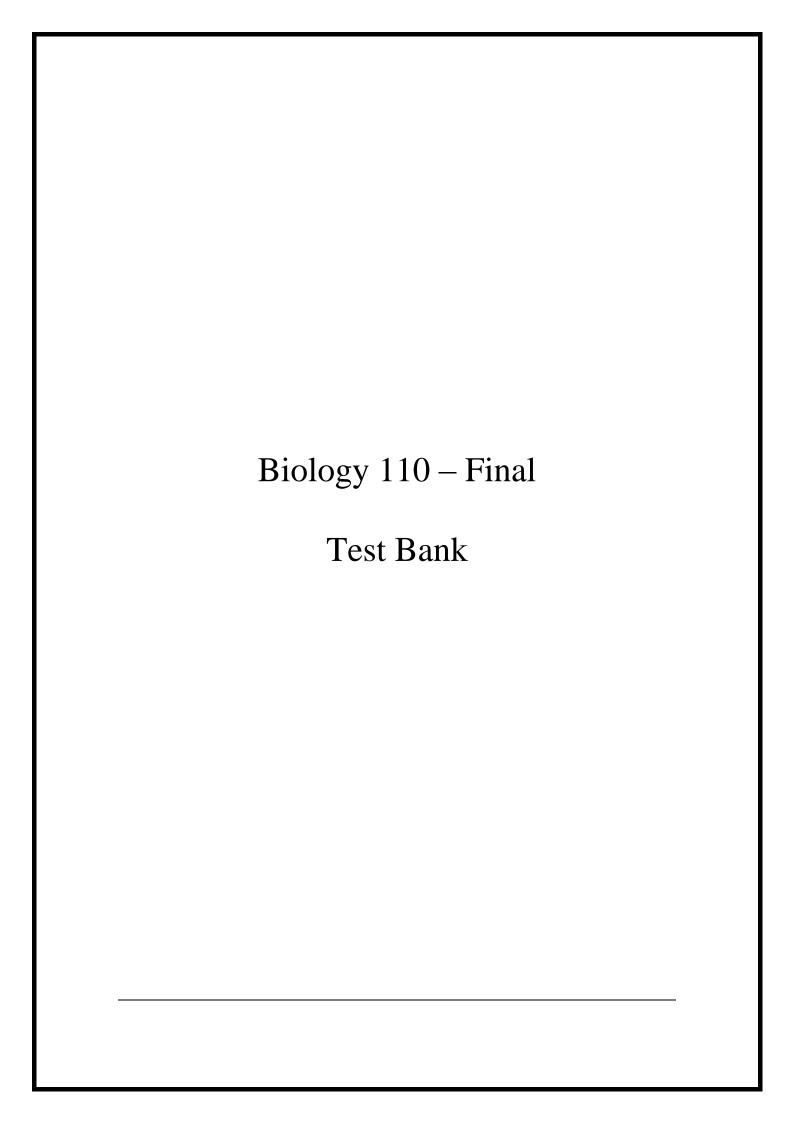
كيمياء حيوين

<del>\*</del>

أحياء ١١٠

جدة

دكتور / خمال الشعراوي



1.	The tracheal systems are the major site of gas exchange in
	<ul> <li>arthropods</li> <li>flatworms</li> <li>reptiles</li> <li>jellies</li> </ul>
2.	The major site of gas exchange inis skin
	<ul> <li>C mammals</li> <li>C tetrapods that live on land</li> <li>C birds</li> <li>€ flatworms</li> </ul>
3.	Gills
	release oxygen absorb carbon dioxide decrease the surface to volume ratio increase the surface to volume ratio
4.	Birds and mammals use as the respiratory surface
	<ul> <li>C their body surfaces</li> <li>⊙ more complex lungs</li> <li>C simple lungs</li> <li>C small lungs</li> </ul>
5.	In the human respiratory system, air passes from larynx to the
	<ul> <li>C nasal cavity</li> <li>C alveoli</li> <li>C bronchi</li> <li>€ trachea</li> </ul>

6.	The actual site of gas exchange in human is
	alveolai vocal cord nasal cavity pharynx
7.	Alveoli are
	the site where CO2 diffuses into the blood having small surface area the site where O2 diffuses out of the blood having huge surface area (100m2 in humans)
8.	Inhalation occurs when
	the diaphragm moves upward the diaphragm moves downward the rib cage contracts the pressure around the lungs increases
9.	Smoking
	decreases the risk of heart attacks and strokes decreases the harmful types of cholesterol can cause lung cancer reduces blood pressure
10.	In the body tissues, blood
	drops off CO <sub>2</sub> drops off waste products  picks up CO <sub>2</sub> picks up O <sub>2</sub>

11. Dui	ring the transport of gases between alveoli and blood
0	O <sub>2</sub> moves from the alveoli of the lungs into the blood
C	CO <sub>2</sub> moves from the tissues into the blood
0	O <sub>2</sub> moves from the blood into the tissues
•	the tissues have more CO <sub>2</sub> and less O <sub>2</sub> than in the blood
12. The	e iron-containing pigment (hemoglobin)
0	is found only in birds
0	is found in Arthropods
•	is found in almost all vertebrates
0	is found in Mollusca
13. The	e heart
O	carries food through body
0	transports blood throughout the entire body
•	pumps blood through body
0	is network of hollow tubes
14. In t	he four-chambered hearts
•	oxygen rich blood is completely separated from oxygen poor blood
0	blood stays confined to vessels
	cells directly bathed in blood AND blood stays confined to vessels
0	cells directly bathed in blood
15. Arto	eries
•	have thicker walls
0	composed of a single layer of epithelial cells
0	are narrow, blood cells flows in a single file
0	have one-way valves that restrict backward flow
	nave one way varves that restrict backward now

16.	. The heart rate	
	0000	prevent the backflow of blood is the amount of blood/minute pumped into systemic circuit defined as the number of beats/minute is a defect in one or more heart valves
17.	The	AV node
	000000000000000000000000000000000000000	generates electrical signals in atria sets the rate of heart contractions is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles
18.	A he	eart attack is defined as
	000000000000000000000000000000000000000	the death of brain tissue from blocked arteries in the head the force blood exerts on vessel walls the development of plaques inside walls of blood vessels the damage to cardiac muscle typically from a blocked coronary artery
19.	Plas	ma contains fibrinogen, which is converted into fibrin that help
	0 0 0	as pH buffering as solvent for carrying other substance in blood clotting in defense
20.	The	white blood cells (leukocytes)
	© 0 0	fight cancer transport $O_2$ bound to hemoglobin transport $CO_2$ promote clotting

21.	Son	ne athletes artificially increase their red blood cell production by injecting
	0000	fibrinogen erythropoietin immunoglobulins sodium ions
22.	the	major site of gas exchange in are tracheal systems
	0	flatworms arthropods mammals fish
23.	Gill	S
	000000000000000000000000000000000000000	absorb carbon dioxide decrease the surface to volume ratio absorb oxygen release oxygen
24.	Biro	ds and mammals use as the respiratory surface
	0	their body surfaces more complex lungs simple lungs small lungs
25.	In tl	ne human respiratory system, air passes from nasal cavity to the
	0	alveoli pharynx larynx bronchioles

26.	The actual site of gas exchange in human is
	C larynx      alveolai C vocal cord C nasal cavity
27.	Alveoli are
	having small surface area the site where O2 diffuses out of the blood the site where CO2 diffuses out of the blood the site where CO2 diffuses into the blood
28.	Inhalation occurs when
	the volume of the chest cavity increases, lowering the air pressure around lungs. the diaphragm moves upward the rib cage contracts air is forced out of the respiratory tract
29.	Smoking
	reduces blood pressure increases the harmful types of cholesterol decreases the harmful types of cholesterol decreases the risk of heart attacks and strokes
30.	In the lungs, blood
	<ul> <li>□ picks up CO<sub>2</sub></li> <li>⊙ picks up O<sub>2</sub></li> <li>□ drops off O<sub>2</sub></li> <li>□ drops off urine</li> </ul>

31.	Dur	ing the transport of gases between blood and tissues
	000000000000000000000000000000000000000	$O_2$ moves from the alveoli of the lungs into the blood $CO_2$ moves from the blood into the alveoli of the lungs the tissues have more $CO_2$ and less $O_2$ than in the blood gases in the alveoli have more $O_2$ and less $CO_2$ than gases the blood
32.	The	copper-containing pigment (hemocyanin)
	© 0 0	is found in Mollusca is found in many mammals is found in almost all vertebrates is found only in birds
33.	The	heart
	<ul><li>○</li><li>○</li><li>○</li></ul>	carries oxygen through body carries food through body transports blood throughout the entire body pumps blood through body
34.	In th	ne four-chambered hearts
	0000	there are two atria and two ventricles blood stays confined to vessels heart pumps blood through open-ended vessels there are two atria and one ventricle
35.	Vei	ns
		have thicker walls are under more pressure force blood back to right heart atrium increases surface area for gas and fluid exchange

36.	The heart valves	
	0 0 0	is a defect in one or more heart valves define as the number of beats/minute is the amount of blood/minute pumped into systemic circuit prevent the backflow of blood
37.	The	AV node
	000000000000000000000000000000000000000	generates electrical signals in atria sets the rate of heart contractions is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles
38.	The	stroke
	000000000000000000000000000000000000000	is the death of brain tissue from blocked arteries in the head is the damage to cardiac muscle narrows the heart blood vessels reduces the diastolic pressure
39.	Plas	ma contains fibrinogen, which is converted into fibrin that help
	0	in osmotic balance as pH buffering in blood clotting as solvent for carrying other substance
40.	The	white blood cells (leukocytes)
	© 0 0	function inside and outside the circulatory system are small fragments of cells promote clotting transport $O_2$ bound to hemoglobin

41.	Gill	S
	© © ©	release oxygen increase the surface area for gas exchange absorb carbon dioxide decrease the surface to volume ratio
42.	Exh	alation occurs when
	○ ○ ○	the diaphragm moves downward the volume of the chest cavity increases, lowering the air pressure around lungs. the pressure around the lungs increases air rushes into lungs to equalize the pressure difference
43.	In th	ne body tissues, blood
	0 0	picks up $O_2$ drops off $O_2$ drops off $CO_2$ drops off waste products
44.	The	iron-containing pigment (hemoglobin)
	<ul><li>○</li><li>○</li><li>○</li></ul>	is found only in birds is found in Arthropods is found in many invertebrates is found in Mollusca
45.	The	blood vessels
	© 0 0	transport blood throughout the entire body carry $O_2$ to the lungs carry $CO_2$ to the body carry waste to body cells

46.	In the four-chambered hearts	
	0	blood stays confined to vessels the left side of the heart pumps blood from lungs to body heart pumps blood through open-ended vessels there is no answer
47.	Cap	illaries
	0 0	force blood back to right heart atrium exchange gas and other transfers in the capillary beds are under more pressure have one-way valves that restrict backward flow
48.	Ath	erosclerosis
	000000000000000000000000000000000000000	is the force blood exerts on vessel walls reduces the blood flow is measured as systolic pressure is measured as diastolic pressure
49.	The	platelets
	0 0	fight infections promote clotting fight cancer transport $CO_2$
50.	The	pacemaker (SA node)
	0 0 0	is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles sets the rate of heart contractions is the development of plaques inside walls of blood vessels
		is the development of praques filside walls of blood vessels

54. Animals exchange heat with the environment by  Fertilization Pollination Photosynthesis None of the above  55. The adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second	51.	OSII	foregulation means the
Ectothermic Endothermic Endothermic AND Herbivorous Herbivorous  53. Endothermic animals  derive body heat mainly from their metabolism are represented by worms and molluses absorb heat from their surroundings absorb heat from their surroundings AND are represented by worms and  54. Animals exchange heat with the environment by  Fertilization Pollination Photosynthesis None of the above  55. The adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second		0 0	control of the gain and loss of water and solutes First AND Second
Endothermic Endothermic AND Herbivorous Herbivorous  Salage and the surroundings  are represented by worms and molluscs absorb heat from their surroundings absorb heat from their surroundings AND are represented by worms and  Animals exchange heat with the environment by  Fertilization Pollination Photosynthesis None of the above  The adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second	52.	Aniı	mals that absorb heat from their surroundings are called
derive body heat mainly from their metabolism are represented by worms and molluscs absorb heat from their surroundings absorb heat from their surroundings AND are represented by worms and  54. Animals exchange heat with the environment by  Fertilization Pollination Photosynthesis None of the above  55. The adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second		0	Endothermic Endothermic AND Herbivorous
are represented by worms and molluscs absorb heat from their surroundings absorb heat from their surroundings AND are represented by worms and  54. Animals exchange heat with the environment by  Fertilization Pollination Photosynthesis None of the above  55. The adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second	53.	End	othermic animals
Fertilization Pollination Photosynthesis None of the above  The adaptations that promote the process of thermoregulation include Behavioral responses Circulatory adaptations First AND Second		0	are represented by worms and molluscs
Pollination Photosynthesis None of the above  55. The adaptations that promote the process of thermoregulation include Behavioral responses Circulatory adaptations First AND Second	54.	Anii	mals exchange heat with the environment by
Behavioral responses Circulatory adaptations First AND Second		0	Pollination Photosynthesis
Circulatory adaptations  First AND Second	55.	The	adaptations that promote the process of thermoregulation include
Conduction		0	Circulatory adaptations First AND Second

56.	The fresh	hwater fish
	Pur C ther	crete excess water  mp out excess salt  re is no answer  se water by osmosis
57.	The land	animals conserve water using
	C Lu	chavior adaptations  ngs  lls  omach
58.	In verteb	orates the excretion is primarily carried out by
	$\circ$	ngs omach
59.	In mamn	mals, the ureters drain urine into
	o uri	ferior vena cava nary bladder other answers are correct anal artery and vein
60.	The key	excretory processes of the urinary system include
	C File	cretion tration est AND Second enduction

61.	51. The nitrogenous wastes are toxic breakdown products of	
	0	all not above Fats
		Inorganic compounds
	•	Nucleic acids
62.		animals dispose off nitrogenous wastes in the form of
	0	Hydrochloric acid
	$\odot$	uric acid
	O	Nitrate
	0	First AND Second
		That AND Second
63.	Urea	a Is
	$\odot$	Easier to store
	0	Soluble in water AND Easily disposed of by aquatic animals
	0	Soluble in water
	0	
		Easily disposed of by aquatic animals
64.	shar	is the nitrogen-containing metabolic waste products in mammals, amphibians, ks, and some bony fishes
	О	Ammonia AND Carbonate
	0	Carbonate
	•	
	0	Urea
		Ammonia
65.	The	kidney dialysis can be a lifesaver by
	$\odot$	Maintaining the solute concentration in the blood
	O	All other answers are correct
	0	
	0	Maintaining the toxic compounds in the blood
	_	Extracting a filtrate from the urine

66.	Exc	ess of CO <sub>2</sub> or O <sub>2</sub> in the plant leaves exit through
	© C C	Stomata Phloem Xylem all of the above
67.		retion of water and its solutes by hydathodes found in the leafs epidermis of some plants is
	C C C C	Transpiration All other answers are correct Photosynthesis Guttation
68.	The	evaporation of water from the surface of leaves through stomata is called
69.	som C	Guttation Transpiration All other answers are correct Photosynthesis is secretion of water and its solutes by hydathodes found in the leafs epidermis of e plants Transpiration Guttation Respiration
	0	all of the above
70.		is the evaporation of water from the surface of leaves through stomata
	0	Respiration
	0	Guttation
	0	Photosynthesis
	$\odot$	None of the above

71.	Osmoregulation means the	
	there is no answer  the disposal of nitrogen-containing wastes  maintenance of internal temperature within narrow limits  the active regulation of the osmotic pressure of an organism fluids	
72.	Animals that absorb heat from their surroundings are called	
	Photosynthetic AND Herbivorous Herbivorous Ectothermic Photosynthetic	
73.	Endothermic animals	
	absorb heat from their surroundings  All other answers are correct derive body heat mainly from their metabolism use water and atmospheric CO <sub>2</sub> to produce sugar	
74.	Animals exchange heat with the environment by	
	there is no answer Fertilization Evaporation Pollination	
75.	The adaptations that promote the process of thermoregulation include	
	Behavioral responses Increased metabolic heat production Evaporative cooling All of the above	

76. T	he saltwater fish
(	Gain water by osmosis Pump out excess salt Excrete excess water All other answers are correct
77. T	he land animals conserve water using
(	Behavior adaptations First AND Second
(	Gills Lungs First AND Second Kidneys he key excretory processes of the urinary system include
(	None of the above
80. T	there is no answer Inorganic compounds

81.	The	animals dispose off nitrogenous wastes in the form of
	0 0 0	Hydrochloric acid AND Nitrate Nitrate Hydrochloric acid Urea
82.	Urea	a Is
	0 0 0	Poisonous Soluble in water First AND Second Less toxic
83.		is the nitrogen-containing metabolic waste products in most aquatic animals adding most fishes)
84.	© C C The	Ammonia  Uric acid  All other answers are correct  Urea  kidney dialysis can be a lifesaver by
85.	© C C	Removing wastes from the blood AND Maintaining the solute concentration in the blood  Maintaining the solute concentration in the blood  Maintaining the toxic compounds in the blood  Removing wastes from the blood  ess of CO <sub>2</sub> or O <sub>2</sub> in the plant leaves exit through
	0 0	Stomata  penetrating the external cell on surfaces directly to the air  First AND Second  Xylem

86.	The halophytes excrete the excess salts outside their body by
	<ul> <li>vascular bundles</li> <li>Cortex</li> <li>Frist AND Second</li> <li>special glands</li> </ul>
87.	convert excess amino acids into uric acid and Keto acids
	aquatic plants terrestrial plants  All other answers are correct halophytes
88.	Asexual reproduction
	<ul> <li>unique offspring</li> <li>Can proceed via Budding, Fission, and Fragmentation</li> <li>All other answers are correct</li> <li>Two parents produce genetically identical offspring</li> </ul>
89.	Hermaphroditism
	there is no answer  One individual with male and female reproductive systems  One parent produces genetically identical offspring  One individual with male reproductive system and the other with female reproductive systems
90.	In Sexual reproduction, sperm may be transferred to the female by
	<ul> <li>Wind</li> <li>Insects</li> <li>Internal fertilization</li> <li>fragmentation</li> </ul>

91.	Both sexes in humans have	
	000	Carpels Sepals
		A set of gonads where gametes (sperms & ovum) are produced
	0	there is no answer
92.	Hun	nan Male Reproductive anatomy has
	U	Prostate
	0	several glands contribute to semen AND Prostate
	0	The uterus opens into the vagina through the cervix
	•	several glands contribute to semen
		several glands contribute to senior
93.	Whi	ch of the following statement is true
	O	Oogenesis (the egg formation) Occurs in testes
	0	Spermatogenesis (the sperm formation) Occurs in Ovaries
	•	
	O	Oogenesis (the egg formation) Occurs in Ovaries
		All other answers are correct
94.	Men	astrual Cycles Occur about every days
	$\odot$	28
	0	29
	C	14
	O	None of the above
95.	Fert	ilization is the union of
	0	sperm and egg to form a sex organ there is no answer
	O	sperm and egg to form a haploid zygote
	•	sperm and egg to form a diploid zygote

96.	Spe	rm are adapted to reach and fertilize an egg via
	0000	Many mitochondria provide ATP for tail movements  Head contains an acrosome containing penetrating enzymes  Streamlined shape moves more easily through fluids all of the above
97.	Clea	avage
	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Embryo is getting larger produces a ball of cells from the zygote called Gastrula is a rapid series of cell divisions None of the above
98.	Gas	trula produces
	0 0 0	a four-layered embryo a three-layered embryo a two-layered embryo None of the above
99.	Ase	xual reproduction
100	C C C	there is no answer  One parent produces genetically identical offspring  One parent produces genetically different offspring  Very slow reproduction  maphroditism
100	.Her	mapnrodiusm
	C repr	One parent produces genetically identical offspring  One individual with male reproductive system and the other with foductive systems
	○ ⊙	First AND Second  One individual with male and female reproductive systems

101. In Sexual reproduction, sperm may be transferred to the female by		
C	Wind Internal fertilization fragmentation there is no answer	
© 0 0	Ducts for gamete transport All other answers are correct Carpels Sepals	
103.Hun	nan Male Reproductive anatomy has	
© © © 0	Ovaries contain follicles that Nurture eggs and Produce sex hormones  Oviducts convey eggs to the uterus where embryos develop several glands contribute to semen  The uterus opens into the vagina through the cervix ch of the following statement is true	
C C C 105.Sper	All other answers are correct  Spermatogenesis (the sperm formation) Occurs in seminiferous tubules  Oogenesis (the egg formation) Occurs in testes  Spermatogenesis (the sperm formation) Occurs in Ovaries  rm are adapted to reach and fertilize an egg via	
C C C	Cubical shape moves more easily through fluids  Head contains a diploid nucleus  First AND Second  Streamlined shape moves more easily through fluids	

106.Cleavage		
C C C Gast	produces a ball of cells from the zygote called Gastrula produces a ball of cells from the zygote is a slow series of cell divisions is a slow series of cell divisions AND produces a ball of cells from the zygote called rula	
107.Asex	xual reproduction	
0 0 0	Very slow reproduction  Two parents produce genetically identical offspring  All other answers are correct  Very rapid reproduction	
108. Whi	ch of the following statement is true	
0 0 0	Oogenesis (the egg formation) Occurs in testes  Spermatogenesis (the sperm formation) Occurs in seminiferous tubules  Spermatogenesis (the sperm formation) Occurs in Ovaries there is no answer	
109.Hum	nan Male Reproductive anatomy has	
© C C	Seminal vesicles All other answers are correct Ovaries contain follicles that Nurture eggs and Produce sex hormones The vagina Receives the penis during sexual intercourse	
110.Binary fission		
0 0 0	resulted in plasma membrane growth inward at the midpoint to divide the cells resulted in duplication of a single circular chromosome  First AND Second resulted in plasma membrane growth outward at the midpoint to divide the	

111.Eukaryotic Cell Division includes		
C	mitosis	
0	meiosis	
•	mitosis AND meiosis	
112.The	sequence of Eukaryotic Cell Cycle is	
0	S, G1,G2, and M	
0	All other answers are correct	
•	G1, S, G2, and M	
0	G1, S, M, and G2	
	G1, 5, 11, and G2	
113	is a part of Eukaryotic Cell Cycle	
0	G2	
0	S	
0	G1	
•		
	All of the above	
114	is a part of Mitosis of the Eukaryotic Cell Cycle	
0		
_	Metaphase	
	Prophase	
0	Telophase	
•	All of the above	
115.Dup	plicated chromosome is made of	
C	two Sister chromosome	
0	two Sister chromatin	
•	two identical DNA molecules	
C	there is no answer	

116.Cytoplasmic division		
0 0	there is no answer is called Cytogenesis is called Cytogenetic overlaps with telophase	
117.Pair	s of autosomes	
0 0	have the same genetic information have the same size AND have the same genetic information have different genetic information have the same size	
118.Dur	ing meiosis II	
0 0	The chromosome number is reduced by half All other answers are correct haploid cell is produced diploid cell is produced	
119.In M	Mendel experiment, the heritable factors is now known as	
0 0	chromosmes chromatids genes First AND Second	
120.Fille	ed circle in human pedigree is symbol for	
© 0 0	affected female affected male normal female there is no answer	

© 0 0	Pleiotropy Segregation recessiveness AND Segregation recessiveness
122.Whi	ich of the following is ture in bees sex determination system?
000000000000000000000000000000000000000	haploid = female haploid = male triploid = male haploid = female AND triploid = male
123.Bina	ary fission
C C C ©	Occurs in eukaryotic cells produces two different cells from one cell First AND Second resulted in duplication of a single circular chromosome ual reproduction Involves
© 0 0	inheritance of unique sets of genes from two parents inheritance of unique sets of genes from one parent All other answers are correct Offspring are similar to one parent
125.The	Interphase of Eukaryotic Cell Cycle includes phases
0 0 0	G1, M, and S G1, and S G2, S, and M None of the above

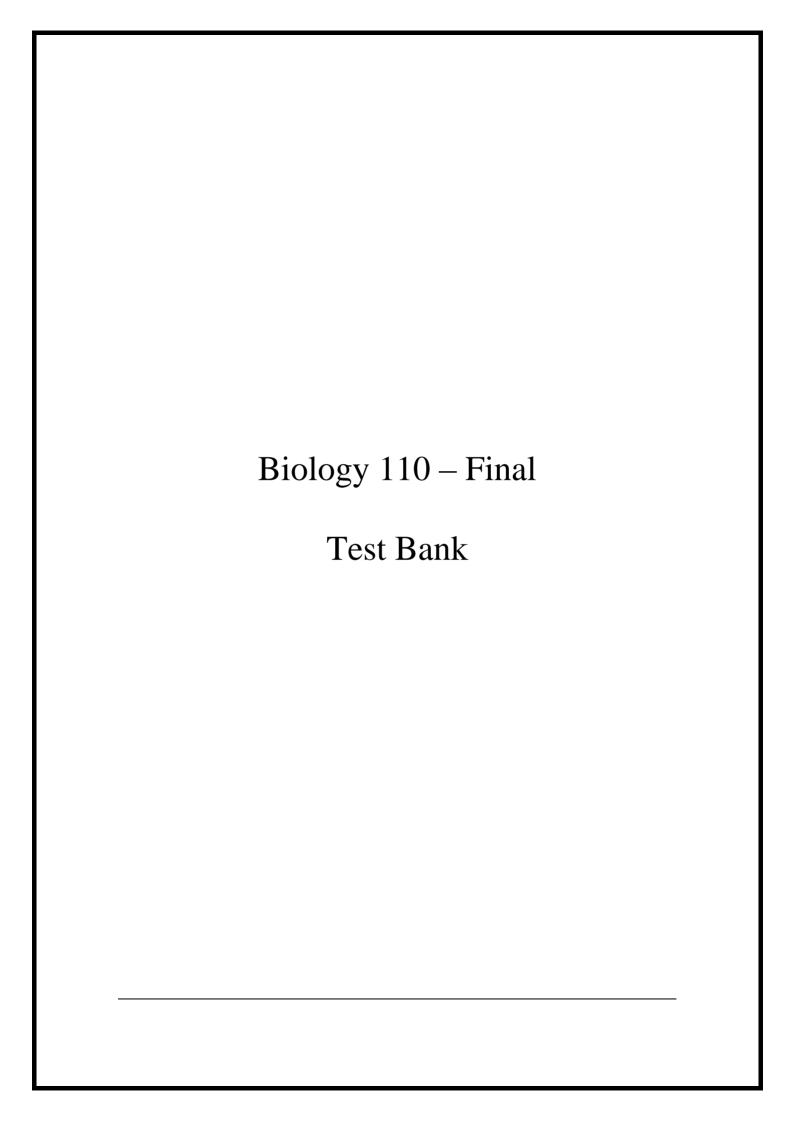
121. Which of the following is an exception to Mendels Laws?

126.G1	
0	All other answers are correct first gap phase, growth and prepares for S-phase second gap phase,growth and preparation for division
C	DNA synthesis phase, duplication of chromosomes, each becomes two sister chromatids
127	is (are) Chromosomes align on cells midplane on top of each other.
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Telophase Anaphase Metaphase First AND Second
128.S1ste	er chromatids are joined at a narrow region called the
0	chromatin there is no answer chromosome chromomer
129.Cyto	oplasmic division
O ⊙ O	is called Cytogenesis overlaps with telophase is called Cytosol First AND Second
130.Pair	s of autosomes
O O ⊙	different in Centromere position have different size matched in Gene locations have different genetic information

131.Crossing over occurs during		
C	mitosis	
•	meiosis II	
0	meiosis I	
0	None of the above	
132.Wh	ich of the following is Heterozygous?	
0		
0	ab	
•	aa	
o	Aa	
	First AND Second	
133	is referred to as Heterozygote expresses phenotypes of both homozygotes	
0	All other answers are correct	
C	Incomplete dominance	
•	Codominance	
0	Pleiotropy	
	Tielouopy	
134.Wh	ich of the following is ture in bees sex determination system?	
0	Diploid = female	
0	haploid = female	
•	Diploid = female AND haploid = male	
0	haploid = male	
	•	
135.The	sequence of Eukaryotic Cell Cycle is	
0	G1, M, G2, and S	
0	G1, S, G2, and M	
0	All other answers are correct	
0	G1, S, M, and G2	

136	is a part of Eukaryotic Cell Cycle	
C	M	
•	G1 AND G2	
0	G1	
0	G2	
137. The sequence of Mitotic phase of Eukaryotic Cell Cycle is		
o o o	Prophase, Prometaphase, Anaphase, and Telophase Prophase, Telophase, Metaphase, Anaphase, and Prometaphase Metaphase, Prophase, Prometaphase, Anaphase, and Telophase None of the above	
138.Meiosis		
O O ⊙	has two S phases has one devision AND has two S phases has one devision has one interphase	
139. Which of the following statements are true		
0 0 0	The allele that disappear in the $F_1$ generation is called dominant allele there is no answer dominant allele appears in the $F_1$ generation Recessive and dominant allele disppear in the $F_2$ generation	
140.Mu	Itiple alleles is referred to	
o ⊙ o	Heterozygote expresses phenotypes of both homozygotes there is no answer Heterozygote has intermediate phenotype The phenomenon of one gene mutation being responsible for or affecting more than one	
phe	notypic characteristic.	

141. Which of the following is ture in birds sex determination system?	
O	ZW = female AND  ZZ = male $ZW = male$ $ZW = female$ $ZZ = male$ is a part of Mitosis of the Eukaryotic Cell Cycle
© 0 0	Anaphase All other answers are correct G2 G1
143.Dup	plicated chromosome is made of
© ⊙ ⊙	two Sister chromatids two Sister chromatin there is no answer



1.	The tracheal systems are the major site of gas exchange in
	<ul> <li>arthropods</li> <li>flatworms</li> <li>reptiles</li> <li>jellies</li> </ul>
2.	The major site of gas exchange inis skin
	<ul> <li>C mammals</li> <li>C tetrapods that live on land</li> <li>C birds</li> <li>✓ flatworms</li> </ul>
3.	Gills
	release oxygen absorb carbon dioxide decrease the surface to volume ratio increase the surface to volume ratio
4.	Birds and mammals use as the respiratory surface
	their body surfaces more complex lungs simple lungs small lungs
5.	In the human respiratory system, air passes from larynx to the
	C nasal cavity C alveoli D bronchi trachea

6.	The actual site of gas exchange in human is
	alveolai vocal cord nasal cavity pharynx
7.	Alveoli are
	the site where CO2 diffuses into the blood having small surface area the site where O2 diffuses out of the blood having huge surface area (100m2 in humans)
8.	Inhalation occurs when
	the diaphragm moves upward the diaphragm moves downward the rib cage contracts the pressure around the lungs increases
9.	Smoking
	decreases the risk of heart attacks and strokes decreases the harmful types of cholesterol can cause lung cancer reduces blood pressure
10.	In the body tissues, blood
	drops off CO <sub>2</sub> drops off waste products  picks up CO <sub>2</sub> picks up O <sub>2</sub>

11.	Duri	ng the transport of gases between alveoli and blood
	0 0 0	$O_2$ moves from the alveoli of the lungs into the blood $CO_2$ moves from the tissues into the blood $O_2$ moves from the blood into the tissues the tissues have more $CO_2$ and less $O_2$ than in the blood
12.	The	iron-containing pigment (hemoglobin)
	$\cap$	is found only in birds is found in Arthropods is found in almost all vertebrates is found in Mollusca
13.	The	heart
	0 0 0	carries food through body transports blood throughout the entire body pumps blood through body is network of hollow tubes
14.	In th	e four-chambered hearts
	© C C	oxygen rich blood is completely separated from oxygen poor blood blood stays confined to vessels cells directly bathed in blood AND blood stays confined to vessels cells directly bathed in blood
15.	Arte	ries
	0 0 0	have thicker walls composed of a single layer of epithelial cells are narrow, blood cells flows in a single file have one-way valves that restrict backward flow

16.	. The heart rate	
	000000000000000000000000000000000000000	prevent the backflow of blood is the amount of blood/minute pumped into systemic circuit defined as the number of beats/minute is a defect in one or more heart valves
17.	The	AV node
	0 0 0	generates electrical signals in atria sets the rate of heart contractions is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles
18.	A he	eart attack is defined as
	0 0 0 0	the death of brain tissue from blocked arteries in the head the force blood exerts on vessel walls the development of plaques inside walls of blood vessels the damage to cardiac muscle typically from a blocked coronary artery
19.	Plas	ma contains fibrinogen, which is converted into fibrin that help
	0 0 0	as pH buffering as solvent for carrying other substance in blood clotting in defense
20.	The	white blood cells (leukocytes)
	0 0	fight cancer transport $O_2$ bound to hemoglobin transport $CO_2$ promote clotting

21.	Some athletes artificially increase their red blood cell production by injecting
	fibrinogen erythropoietin immunoglobulins sodium ions
22.	the major site of gas exchange in are tracheal systems
	flatworms arthropods mammals fish
23.	Gills
	absorb carbon dioxide decrease the surface to volume ratio absorb oxygen release oxygen
24.	Birds and mammals use as the respiratory surface
	their body surfaces more complex lungs simple lungs small lungs
25.	In the human respiratory system, air passes from nasal cavity to the
	C alveoli pharynx larynx bronchioles

26.	6. The actual site of gas exchange in human is	
	C C C	larynx alveolai vocal cord nasal cavity
27.	Alv	eoli are
	0 0 0	having small surface area the site where O2 diffuses out of the blood the site where CO2 diffuses out of the blood the site where CO2 diffuses into the blood
28.	Inha	alation occurs when
	00000	the volume of the chest cavity increases, lowering the air pressure around lungs. the diaphragm moves upward the rib cage contracts air is forced out of the respiratory tract
29.	Smo	oking
	000	reduces blood pressure increases the harmful types of cholesterol decreases the harmful types of cholesterol decreases the risk of heart attacks and strokes
30.	In tl	he lungs, blood
	0000	picks up $CO_2$ picks up $O_2$ drops off $O_2$

31.	Dur	ing the transport of gases between blood and tissues
	© ⊙ ⊙	$O_2$ moves from the alveoli of the lungs into the blood $CO_2$ moves from the blood into the alveoli of the lungs the tissues have more $CO_2$ and less $O_2$ than in the blood gases in the alveoli have more $O_2$ and less $CO_2$ than gases the blood
32.	The	copper-containing pigment (hemocyanin)
	© 0 0	is found in Mollusca is found in many mammals is found in almost all vertebrates is found only in birds
33.	The	heart
	000000000000000000000000000000000000000	carries oxygen through body carries food through body transports blood throughout the entire body pumps blood through body
34.	In th	ne four-chambered hearts
	© 0 0	there are two atria and two ventricles blood stays confined to vessels heart pumps blood through open-ended vessels there are two atria and one ventricle
35.	Vei	ns
	0 0 0	have thicker walls are under more pressure force blood back to right heart atrium increases surface area for gas and fluid exchange

<i>3</i> 6.	The	heart valves
	0000	is a defect in one or more heart valves define as the number of beats/minute is the amount of blood/minute pumped into systemic circuit prevent the backflow of blood
37.	The	AV node
	0 0 0	generates electrical signals in atria sets the rate of heart contractions is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles
38.	The	stroke
	0 0	is the death of brain tissue from blocked arteries in the head is the damage to cardiac muscle narrows the heart blood vessels reduces the diastolic pressure
39.	Plas	ma contains fibrinogen, which is converted into fibrin that help
	0 0	in osmotic balance as pH buffering in blood clotting as solvent for carrying other substance
40.	The	white blood cells (leukocytes)
	000000000000000000000000000000000000000	function inside and outside the circulatory system are small fragments of cells promote clotting transport $O_2$ bound to hemoglobin

41.	. Gills	
	0000	release oxygen increase the surface area for gas exchange absorb carbon dioxide decrease the surface to volume ratio
42.	Exh	alation occurs when
	0 0 0	the diaphragm moves downward the volume of the chest cavity increases, lowering the air pressure around lungs. the pressure around the lungs increases air rushes into lungs to equalize the pressure difference
43.	In th	ne body tissues, blood
44.	C C C The	picks up O <sub>2</sub> drops off O <sub>2</sub> drops off CO <sub>2</sub> drops off waste products iron-containing pigment (hemoglobin)
	0000	is found only in birds is found in Arthropods is found in many invertebrates is found in Mollusca
45.	The	blood vessels
	© 0 0	transport blood throughout the entire body carry $O_2$ to the lungs carry $CO_2$ to the body carry waste to body cells

46.	In th	ne four-chambered hearts
	0 0 0	blood stays confined to vessels the left side of the heart pumps blood from lungs to body heart pumps blood through open-ended vessels there is no answer
47.	Cap	illaries
	0	force blood back to right heart atrium exchange gas and other transfers in the capillary beds are under more pressure have one-way valves that restrict backward flow
48.	Ath	erosclerosis
	0	is the force blood exerts on vessel walls reduces the blood flow is measured as systolic pressure is measured as diastolic pressure
49.	The	platelets
	0	fight infections promote clotting fight cancer transport $CO_2$
50.	The	pacemaker (SA node)
		is the amount of blood/minute pumped into systemic circuit relays electrical signals to the ventricles sets the rate of heart contractions is the development of plaques inside walls of blood vessels

51.	Osmoregulation means the	
52.	C C C	the active regulation of the osmotic pressure of an organism fluids control of the gain and loss of water and solutes First AND Second the disposal of nitrogen-containing wastes mals that absorb heat from their surroundings are called
	© C C	Ectothermic Endothermic Endothermic AND Herbivorous Herbivorous
53.	End  ©  C  C	derive body heat mainly from their metabolism are represented by worms and molluscs absorb heat from their surroundings absorb heat from their surroundings AND are represented by worms and molluscs
54.	Ani	Fertilization Pollination Photosynthesis None of the above
55.	The	adaptations that promote the process of thermoregulation include  Behavioral responses Circulatory adaptations First AND Second Conduction

56.	The	freshwater fish
	© 0 0	Excrete excess water Pump out excess salt there is no answer Lose water by osmosis
57.	The	land animals conserve water using
	© 0 0	Behavior adaptations Lungs Gills Stomach
58.	In v	ertebrates the excretion is primarily carried out by
	000000000000000000000000000000000000000	Gills Lungs Stomach Skin
59.	In n	nammals, the ureters drain urine into
	0000	Inferior vena cava urinary bladder All other answers are correct Renal artery and vein
60.	The	key excretory processes of the urinary system include
	00000	Excretion Filtration First AND Second Conduction

61.	The nitrogenous wastes are toxic breakdown products of	
	000000000000000000000000000000000000000	all not above Fats Inorganic compounds Nucleic acids
62.	The	animals dispose off nitrogenous wastes in the form of
	0 0 0	Hydrochloric acid uric acid Nitrate First AND Second
63.	Ure	a Is
64.		Easier to store  Soluble in water AND Easily disposed of by aquatic animals  Soluble in water  Easily disposed of by aquatic animals  is the nitrogen-containing metabolic waste products in mammals, amphibians, eks, and some bony fishes
	0 0 0	Ammonia AND Carbonate Carbonate Urea Ammonia
65.	The	kidney dialysis can be a lifesaver by
	0000	Maintaining the solute concentration in the blood  All other answers are correct  Maintaining the toxic compounds in the blood  Extracting a filtrate from the urine

66.	6. Excess of CO <sub>2</sub> or O <sub>2</sub> in the plant leaves exit through		
	00000	Stomata Phloem Xylem all of the above	
67.		retion of water and its solutes by hydathodes found in the leafs epidermis of some plants is	
	can	ed	
	0 0 0	Transpiration All other answers are correct Photosynthesis Guttation	
68.	The	evaporation of water from the surface of leaves through stomata is called	
	O	Guttation	
	0	Transpiration	
	0	All other answers are correct	
	•	Photosynthesis	
69.		is secretion of water and its solutes by hydathodes found in the leafs epidermis of plants	
	C	Transpiration	
	•	Guttation	
	0	Respiration	
	0	all of the above	
70.		is the evaporation of water from the surface of leaves through stomata	
	0	Respiration	
	0	Guttation	
	0	Photosynthesis	
	•	None of the above	

71.	. Osmoregulation means the		
	00000	there is no answer the disposal of nitrogen-containing wastes maintenance of internal temperature within narrow limits the active regulation of the osmotic pressure of an organism fluids	
72.	Ani	mals that absorb heat from their surroundings are called	
	0	Photosynthetic AND Herbivorous Herbivorous Ectothermic Photosynthetic	
73.	End	othermic animals	
	0 0	absorb heat from their surroundings  All other answers are correct  derive body heat mainly from their metabolism  use water and atmospheric $CO_2$ to produce sugar	
74.	Ani	mals exchange heat with the environment by	
	0 0	there is no answer Fertilization Evaporation Pollination	
75.	The	adaptations that promote the process of thermoregulation include	
	000000000000000000000000000000000000000	Behavioral responses Increased metabolic heat production Evaporative cooling All of the above	

76.	The	saltwater fish
	0000	Gain water by osmosis  Pump out excess salt  Excrete excess water  All other answers are correct
77.	The	land animals conserve water using
	0 0 0	Kidneys Behavior adaptations First AND Second Stomach
78.	In ve	ertebrates the excretion is primarily carried out by
	0 0 0 0	Gills Lungs First AND Second Kidneys
79.	The	key excretory processes of the urinary system include
	000000000000000000000000000000000000000	Conduction Convection Excretion None of the above
80.	The	nitrogenous wastes are toxic breakdown products of
	0 0 0	Fats there is no answer Inorganic compounds Protein

81.	The	animals dispose off nitrogenous wastes in the form of
	000000000000000000000000000000000000000	Hydrochloric acid AND Nitrate Nitrate Hydrochloric acid Urea
82.	Urea	Is
	0 0	Poisonous Soluble in water First AND Second Less toxic
83.		is the nitrogen-containing metabolic waste products in most aquatic animals uding most fishes)
84.	© C C The	Ammonia  Uric acid  All other answers are correct  Urea  kidney dialysis can be a lifesaver by
	© 0 0	Removing wastes from the blood AND Maintaining the solute concentration in the blood Maintaining the solute concentration in the blood Maintaining the toxic compounds in the blood Removing wastes from the blood
85.	Exce	ess of CO <sub>2</sub> or O <sub>2</sub> in the plant leaves exit through
	0	Stomata  penetrating the external cell on surfaces directly to the air  First AND Second  Xylem

86.	The	halophytes excrete the excess salts outside their body by
	0 0 0	vascular bundles Cortex Frist AND Second special glands
87.		convert excess amino acids into uric acid and Keto acids
	0 0	aquatic plants terrestrial plants All other answers are correct halophytes
88.	Ase	xual reproduction
	0 0	unique offspring  Can proceed via Budding, Fission, and Fragmentation  All other answers are correct  Two parents produce genetically identical offspring
89.	Her	maphroditism
	© © C syste	there is no answer  One individual with male and female reproductive systems  One parent produces genetically identical offspring  One individual with male reproductive system and the other with female reproductive ems
90.	In S	exual reproduction, sperm may be transferred to the female by
	0 0	Wind Insects Internal fertilization fragmentation

91.	Botl	n sexes in humans have
	00000	Carpels Sepals A set of gonads where gametes (sperms & ovum) are produced there is no answer
92.	Hun	nan Male Reproductive anatomy has
	000000000000000000000000000000000000000	Prostate several glands contribute to semen AND Prostate The uterus opens into the vagina through the cervix several glands contribute to semen
93.	Whi	ch of the following statement is true
	0 0 0	Oogenesis (the egg formation) Occurs in testes  Spermatogenesis (the sperm formation) Occurs in Ovaries  Oogenesis (the egg formation) Occurs in Ovaries  All other answers are correct
94.	Mer	astrual Cycles Occur about every days
	000	28 29 14 None of the above
95.	Fert	ilization is the union of
	000000000000000000000000000000000000000	sperm and egg to form a sex organ there is no answer sperm and egg to form a haploid zygote sperm and egg to form a diploid zygote

96.	Spe	rm are adapted to reach and fertilize an egg via
	C C C	Many mitochondria provide ATP for tail movements  Head contains an acrosome containing penetrating enzymes  Streamlined shape moves more easily through fluids all of the above
97.	Clea	avage
	0 0 0	Embryo is getting larger produces a ball of cells from the zygote called Gastrula is a rapid series of cell divisions None of the above
98.	Gas	trula produces
	00000	a four-layered embryo a three-layered embryo a two-layered embryo None of the above
99.	Ase	xual reproduction
100	C C C	there is no answer  One parent produces genetically identical offspring  One parent produces genetically different offspring  Very slow reproduction  maphroditism
	C C repr	One parent produces genetically identical offspring  One individual with male reproductive system and the other with female roductive systems
	<ul><li>○</li></ul>	First AND Second  One individual with male and female reproductive systems

101. In Sexual reproduction, sperm may be transferred to the female by		
0	Wind	
•	Internal fertilization	
C	fragmentation	
0	there is no answer	
102.Bot	n sexes in humans have	
_		
0	Ducts for gamete transport	
0	All other answers are correct	
0	Carpels	
•	Sepals	
102 Hum	non Mola Danua du ativa anatamy has	
103.Hull	nan Male Reproductive anatomy has	
C	On the control of the death of the control of the c	
0	Ovaries contain follicles that Nurture eggs and Produce sex hormones	
•	Oviducts convey eggs to the uterus where embryos develop several glands contribute to semen	
0	The uterus opens into the vagina through the cervix	
104 3371		
104. Whi	ch of the following statement is true	
0		
•	All other answers are correct	
C	Spermatogenesis (the sperm formation) Occurs in seminiferous tubules	
0	Oogenesis (the egg formation) Occurs in testes	
	Spermatogenesis (the sperm formation) Occurs in Ovaries	
105.Sperm are adapted to reach and fertilize an egg via		
0	Cubical shape moves more easily through fluids	
0	Head contains a diploid nucleus	
•	First AND Second	
	Streamlined shape moves more easily through fluids	

106.Clea	106.Cleavage	
C C C Gasi	produces a ball of cells from the zygote called Gastrula produces a ball of cells from the zygote is a slow series of cell divisions is a slow series of cell divisions AND produces a ball of cells from the zygote called	
107.Ase	xual reproduction	
C C C	Very slow reproduction  Two parents produce genetically identical offspring  All other answers are correct  Very rapid reproduction  ch of the following statement is true	
106. W III	ch of the following statement is true	
0 0 0	Oogenesis (the egg formation) Occurs in testes  Spermatogenesis (the sperm formation) Occurs in seminiferous tubules  Spermatogenesis (the sperm formation) Occurs in Ovaries there is no answer	
109.Hun	nan Male Reproductive anatomy has	
© 0 0	Seminal vesicles All other answers are correct Ovaries contain follicles that Nurture eggs and Produce sex hormones The vagina Receives the penis during sexual intercourse	
110.Bina	ary fission	
0 0	resulted in plasma membrane growth inward at the midpoint to divide the cells resulted in duplication of a single circular chromosome  First AND Second  resulted in plasma membrane growth outward at the midpoint to divide the	

111.Euk	aryotic Cell Division includes
C	mitosis
C	meiosis
•	mitosis AND meiosis
112.The	sequence of Eukaryotic Cell Cycle is
0	S, G1,G2, and M
0	All other answers are correct
•	G1, S, G2, and M
C	G1, S, M, and G2
113	is a part of Eukaryotic Cell Cycle
C	G2
O	S
0	G1
•	All of the above
114	is a part of Mitosis of the Eukaryotic Cell Cycle
C	Metaphase
C	Prophase
C	Telophase
•	All of the above
115.Dup	licated chromosome is made of
0	two Sister chromosome
0	two Sister chromatin
•	two identical DNA molecules
0	there is no answer

116.Cytoplasmic division		
0 0 0	there is no answer is called Cytogenesis is called Cytogenetic overlaps with telophase	
117.Pair	s of autosomes	
0 0 0	have the same genetic information have the same size AND have the same genetic information have different genetic information have the same size	
118.Dur	ing meiosis II	
0 0 0	The chromosome number is reduced by half All other answers are correct haploid cell is produced diploid cell is produced	
119.In N	Indel experiment, the heritable factors is now known as	
0 0 0	chromosmes chromatids genes First AND Second	
120.Fille	ed circle in human pedigree is symbol for	
0 0	affected female affected male normal female there is no answer	

0 0	Pleiotropy Segregation recessiveness AND Segregation recessiveness
122.Whi	ch of the following is ture in bees sex determination system?
0 0	haploid = female haploid = male triploid = male haploid = female AND triploid = male
123.Bina	ary fission
0	Occurs in eukaryotic cells produces two different cells from one cell First AND Second resulted in duplication of a single circular chromosome ual reproduction Involves
© C C 125.The	inheritance of unique sets of genes from two parents inheritance of unique sets of genes from one parent All other answers are correct Offspring are similar to one parent Interphase of Eukaryotic Cell Cycle includes phases
	PANOOS
0 0 0	G1, M, and S G1, and S G2, S, and M None of the above

121. Which of the following is an exception to Mendels Laws?

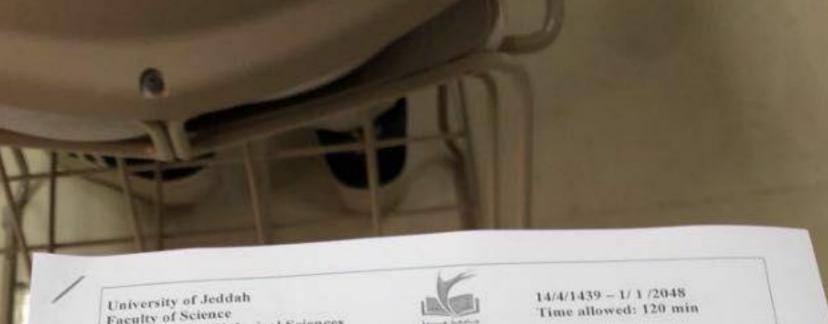
All other answers are correct first gap phase, growth and prepares for S-phase second gap phase, growth and preparation for division  DNA synthesis phase, duplication of chromosomes, each becomes two sister chromatids  is (are) Chromosomes align on cells midplane on top of each other.  Telophase Anaphase Metaphase
First AND Second
First AND Second
er chromatids are joined at a narrow region called the
chromatin there is no answer chromosome chromomer
oplasmic division
is called Cytogenesis overlaps with telophase is called Cytosol First AND Second
rs of autosomes
different in Centromere position have different size matched in Gene locations

131.Crossing over occurs during		
0 0	mitosis meiosis II meiosis I None of the above	
132.Wh	ich of the following is Heterozygous?	
© © ©	ab aa Aa First AND Second is referred to as Heterozygote expresses phenotypes of both homozygotes	
○ ○ ○	All other answers are correct Incomplete dominance Codominance Pleiotropy	
134.Wh	ich of the following is ture in bees sex determination system?	
0 0 0	Diploid = female haploid = female Diploid = female AND haploid = male haploid = male	
135.The	sequence of Eukaryotic Cell Cycle is	
0 0	G1, M, G2, and S G1, S, G2, and M All other answers are correct G1, S, M, and G2	

136	is a part of Eukaryotic Cell Cycle
© ⊙ ⊙	M G1 AND G2 G1 G2
137.The	sequence of Mitotic phase of Eukaryotic Cell Cycle is
O O O	Prophase, Prometaphase, Anaphase, Metaphase, and Telophase Prophase, Telophase, Metaphase, Anaphase, and Prometaphase Metaphase, Prophase, Prometaphase, Anaphase, and Telophase None of the above
138.Mei	osis
0 0 0	has two S phases has one devision AND has two S phases has one devision has one interphase
139.Whi	ch of the following statements are true
0 0 0	The allele that disappear in the $F_1$ generation is called dominant allele there is no answer dominant allele appears in the $F_1$ generation Recessive and dominant allele disppear in the $F_2$ generation
140.Mul	tiple alleles is referred to
C © C pher	Heterozygote expresses phenotypes of both homozygotes there is no answer Heterozygote has intermediate phenotype The phenomenon of one gene mutation being responsible for or affecting more than one notypic characteristic.

141.Whi	ich of the following is ture in birds sex determination system?
C	ZW = female AND ZZ = male ZW = male ZW = female ZZ = male is a part of Mitosis of the Eukaryotic Cell Cycle
© 0 0	Anaphase All other answers are correct G2 G1
143.Dup	olicated chromosome is made of
° ° ° °	two Sister chromatids two Sister chromatin there is no answer

(C) Occurs in the liver	(B) Occurs in the system (D) There is no answer
12. In the four-chambered hearts are I we atnowed the ventricles	(B) One arriam and two ventricles
(C) One atrium and one ventricle	(D) None of the above
13. Oogenesis (the egg formation) Occur	rs in
(A) Seminiferous tubules	(B) Testes
(C) Ovaries	(D) There is no answer
14 is secretion of water and its	solutes by hydathodes found in the leaves
(A) Photosynthesis	(B) Trunspiration
Guttation	(D) There is no answer
15. is (are) first gap phase, gro	wth and prepares for S-phase.
(A) S	(B) S and G2
(C) G2	e) GI
16. The tracheal systems are the major	site of eas exchange in
(Anthropods	(B) Birds
(C) Jellies	(D) Mammals
(C) Jeines	(27) 1-1440111100
17. If egg is not fertilized,	is triggered.
Menstruation	(B) Cleavage
(C) Binary fission	(D) Gastrulation
18. Which of the following is Heterozyg	ous?
	(a) Aa
(A) AA	
(C) as	(D) All other answers are correct
19. The Birds dispose off nitrogenous w	astes in the form of
(A) Hydrochloric acid	(B) Sugar
	(D) None of the above
(# Uric acid	(12) Marie A. me and C.
20. In the human respiratory system, a	ir passes from trachea to the
( Bronchi	(B) Phloem
	(D) First and second choice
(C) Liver	(D) that and second connec
21. Prokaryotes reproduce asexually by	V
	( Binary fission
(A) Meiosis	
(C) Mitosis	(D) All other answers are correct
an the discount	of nitrogen-containing wastes.
C. T. C.	or an ogen-containing masses
(A) Thermoregulation	(B) Osmoregulation
(S) Excretion	(D) None of the above
Linkston	

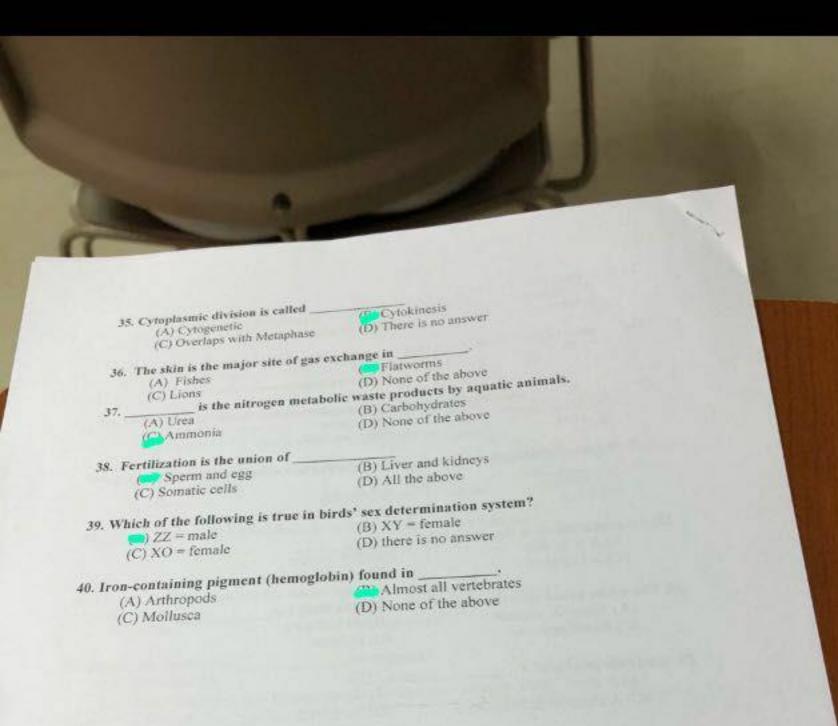


University of Jeddah Faculty of Science Department of Biological Sciences



## Final Exam of General Biology (Bio101) 1<sup>st</sup> Semester 1438 / 1439

(B) Oogenesis (the egg formation) Oo	nation) Occurs in ocurs in testes	seminiferous tubules	
(C) Spermatogenesis (the sperm form	ation) Occurs in	Demies	
(D) None of the above			
2. Osmoregulation is the control of the	and	of water and solute	es.
(A) Ions- actions	( Gain- loss		
(C) Acidity- alkalinity	(D) None of the	above	
3. Normal male in genetic pedigree is rep	resented by		
(A) Filled circle	THE RESERVE TO STATE AND ADDRESS OF THE PARTY OF THE PART		
(C) Open circle	(D) There is no	answer	
and the consumer when	- 22	-	
Exhalation occurs when  (A) The rib cage contracts	(B) Diaphragr	n moves upward	
(C) Diaphragm moves downward	(E) First and	second choice	
	s not occur.		
5. II egg is icrtifized,	(B. Menstrua	tion	
(A) Cleavage (C) Gastrulation	(D) All of the	above	
	ace salts outsid	e their body by	16
6. The halophytes plants excrete the exc	(B) Vascular	bundles	
(A) Flowers	(TX) All other	r answers are correc	1
( Special salt glands			
( Special salt glands			
( Special salt glands homologous ch	romosomes co		
7. During, homologous ch	romosomes co tetrad. (B) Metaph	ome together as pai	
7. During, homologous che Pair with four chromatids is called the Prophase I	romosomes co tetrad. (B) Metaph	ome together as pai	
7. During, homologous ch	romosomes co tetrad. (B) Metaph	ome together as pai	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis	romosomes contetrad.  (B) Metaph  (D) There i	ome together as pai ase l s no answer	
7. During, homologous che Pair with four chromatids is called to Prophase I (C) Cytokinesis  8. Copper-containing pigment (Hemocytokinesis)	(B) Metaph (D) There i	ome together as pai ase I s no answer npods	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyto) (A) Mollusca	(B) Metaph (D) There i	ome together as pai ase l s no answer	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyto) (A) Mollusca (C) Mammals	(B) Metaph (D) There i yanin) found i (B) Arthro	ome together as pai ase I s no answer n pods nd second choice	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyto) (A) Mollusca (C) Mammals	(B) Metaph (D) There i yanin) found i (B) Arthro	ase I s no answer  pods nd second choice	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyte) (A) Mollusca (C) Mammals  9. In Sexual reproduction, sperm trans	(B) Metaph (D) There i yanin) found i (B) Arthro (D) First a	ase I s no answer  n pods nd second choice  female by al fertilization	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyto) (A) Mollusca (C) Mammals	(B) Metaph (D) There i yanin) found i (B) Arthro (D) First a	ase I s no answer  pods nd second choice	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyton) (A) Mollusca (C) Mammals  9. In Sexual reproduction, sperm trans (A) Wind (C) Insects	(B) Metaph (D) There is (anin) found is (B) Arthro (D) First a (Serred to the (D) none	ase I s no answer  n pods nd second choice  female by al fertilization of the above	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocy (A) Mollusca (C) Mammals  9. In Sexual reproduction, sperm trans (A) Wind (C) Insects  10. Excess of CO <sub>2</sub> or O <sub>2</sub> in the plant le	(B) Metaph (D) There is vanin) found is (B) Arthro (D) First a sferred to the (D) none	ase I s no answer  pods nd second choice  female by al fertilization of the above  ough ers	
7. During, homologous che Pair with four chromatids is called to Prophase 1 (C) Cytokinesis  8. Copper-containing pigment (Hemocyton) (A) Mollusca (C) Mammals  9. In Sexual reproduction, sperm trans (A) Wind	(B) Metaph (D) There is vanin) found is (B) Arthro (D) First a sferred to the (D) none	ase I s no answer  n pods nd second choice  female by al fertilization of the above	



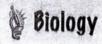
En. Smok seven in homeen have	Charles for parameter representation (CA) Educate to not operated
	date.
24. Measuread Cycles Occur about ever (A) 10	to 28 gills Therei in our element
(6) 13	The second second
26. ner networks of he	dissentation and teamsport blook (8): Contine
Blood versents	(12) Name of the above
	aristary bladder and urine is expelled through a
26. Both prefers drain mee a com-	
(A) Kidneys	Carlot Verifies
(C) Liver	(D) None of the above
27. In manimals sex is determined by	
X-Y system	(B) Z-W system (D) Number of chromosimes
(C) X-O system	(D) primites as consumerated
28. The white blood cells (leukocytes	that help the body for
28. The whole blood cent denotes	(B) pH buffering
(A) Osmotic balance	i Definist
(C) Blood pressure	
29. Gastrula produces a	(B) A one-layered embryo
A LA A two-laygred emoryo	(D) None of the above
A three-layered minutys	
a manual forum I	their surroundings are called
30. Animals that absorb heat from	(B) Endothermic
(A) Herbivorium	(D) First and second choice
Ectothermia	
31. Sister chromatids are joined at	a narrow region called the
31. Sister chromatids are joined as	7(1) Centromere
(A) Cytoplasm	(D) None of the above
(C) Mitochondria	(D) take a second
Idond	
32. In the body tissues, blood	Picks up CO <sub>2</sub>
C. S. S. S. MONTHER CHIEF A. A. S. C.	THE RESERVE THE PARTY OF THE PA
(C) Drops off waste products	(b) management
3. Human Female Reproductive	(B) Tests
(AsOvaries	(D) First and second choice
or Barrieta	(D) Litte with sevening
(C) Prostate	
I. The key processes of the urina	ry system are filtration and
. The key processes of the utins	(B) Secretion
(A) Reabsorption	All of the above
(C) Excretion	VII of the moss
(C1-Exclusion	ALC: N
A TOTAL CONTRACTOR OF THE PARTY	

9 December 2017

١٤٣٩. النصف الدراسي الأولى .. دفعة ١٨. الدوري النهائي

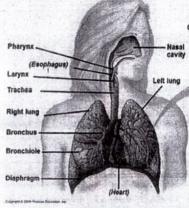
## خال الشعراوي

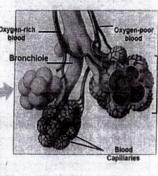
Chapter (9):- Gas exchange











Biology

The anatomy of the human respiratory system (left) and details of the structure of alveoli (right)

كبمياء حبوبة لللبات الطبية





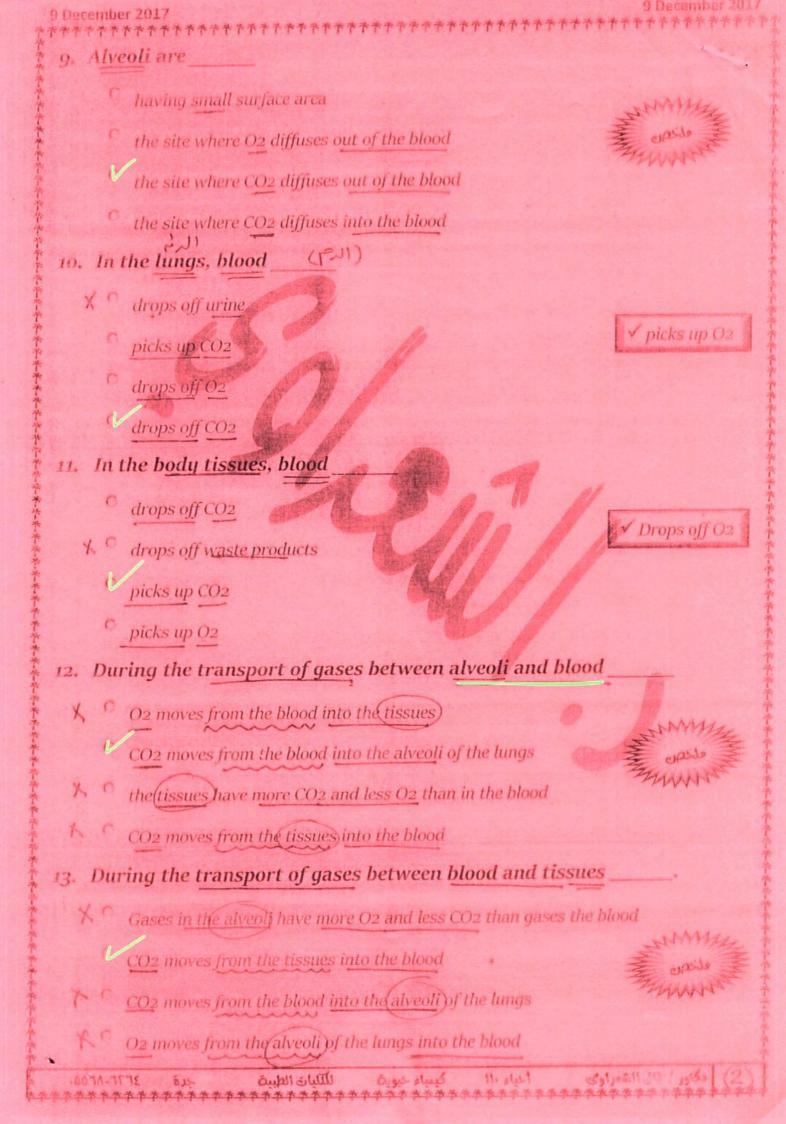
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<del>\*</del>



C Alveoll	O larynx
Nasal cavity	© pharynx
a. In the human respiratory	system, air passes from nasal cavity to
<sup>C</sup> Alveoli	C larynx
bronchioles	pharynx
3. In the human respiratory	system, air passes from pharynx to the
bronchioles bronchioles	nasal cavity
arynx larynx	o trachea
1. In the human respiratory	system, air passes from larynx to the
bronchioles bronchioles	nasal cavity
C larynx	trachea trachea
5. In the human respiratory	system, air passes from trachea to the
O bronchioles	nasal cavity
o larynx	Bronchi Bronchi
i. In the human respiratory	system, air passes from bronchi to the
6 bronchioles	nasal cavity
Clarynx	© Bronchi
. In the human respiratory	system, air passes from bronchioles to
C trachea	nasal cavity
alveoli a	Bronchi
. The actual site of gas excha	ange in human is
larynx	e alveol. i
C vocal cord	nasal cavity

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* 14. The iron-containing pigment (	<b>在这些种种的特别的</b>	STATE OF THE PARTY OF THE PARTY.	*****
is found only in birds			LAMMY.
is found in Arthropods			obside The
is found in almost all vertebrate	es.		-ZHANN'
is found in Mollusca			
15. The copper-containing pigmen	t (hemocyar	nin)	
is found in Mollusca			
is found in many mammals x	1	✓ Is found in a	Arthropods (insects)
is found in almost all vertebrate.	SX		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
is found only in birds 7.  16. Inhalation occurs when			
	· .	and the second	11
the volume of the chest cavity in	creases, towert	ng the air pres	sure around lungs.
the diaphragm moves upward			Through the
the rib cage contracts			, , , , , , , , , , , , , , , , , , ,
air is forced out of the respirator	y tract		
17. Exhalation occurs when			Frammy
air rushes into lungs to equalize	the pressure di	fference	Thurst.
the volume of the chest cavity inc	creases, lowerin	ng the air pres	sure around lungs.
the diaphragm moves upward			
the diaphragm moves downward			
18. The major site of gas exchange	inar	e g <u>ills</u> .	
tetrapods that live on land	o jellie:	s	
mammals	1 fish		
19. the major site of gas exchange i	nare	tracheal sy	ıstems
? mammals	arthr	opods	√ insects
<sup>C</sup> fish	C jellies		
للليات الطبيث جرة ١٣٦٢-١٣٥٥٠	كيمياء خبويت	ا خياء ١١٠	ا فكتور / قال الشعراوي

20. the major site of gas exchange in	are lungs
sponges birds arthropods	✓ Tetrapods that live on land ✓ Mammals ✓ Reptiles
fish (	
21. The skin is the major site of gas ex	cchange in
flatworms  mammals  arthropods  tetrapods that live on land	✓ Eearthworm ✓ Sponge ✓ jellies
	iratory surface
Small lungs  more complex lungs  simple lungs  lungs	✓ their body surfaces
23. Nonbird reptiles useas the	respiratory surface
Simple lungs	o more complex lungs
their body surfaces	c small lungs
24. Birds and mammals useas i	the respiratory surface
their body surfaces	more complex lungs
simple lungs	small lungs
25. Gills XX	
release oxygen & decrease the surface to volume ratio	release carbon dioxide
حيويت للآليات الطبية جدة ١٦٢٠٨١٬۵۵٠	

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9 December 2017 *************************	9 December 20.
-0.0.1:	XX
decreases the harmful types of o	cholesteral entitle
reduces blood pressure	The state of the s
decreases the risk of heart attac	ks and strokes
raises blood pressure	
	of air sacs where gas exchange occurs.
∠A) Alveoli ←	B) Bronchi
C) Trachea	D) bronchioles
28. Cellular respiration requires a	continuous supply of O2 andof CO2.
A) charging	B) activation
Ce) disposal Undia	D) inhibition
	l attaches to in red blood cells.
A) Plasma	B) white blood cells
C) Hemoglobin	D) platelets
30. Most of carbon dioxide in blood	d is transported as bicarbonate ions in
LAT Plasma	B) Red blood cells
C) White blood cells	D) Platelets
31. Most of carbon dioxide (CO2) i	n blood is transported asions in plasma
A) Bicarbonates ions	B) Carbonyl
C) Carbon monoxide	D) Carbonate
32. The breathing control centers s	sense and respond tolevels in blood
A) Oxygen	LBJCO2
C) water	D) hormones
33. The breathing control centers a	re found in the
A) Head and aorta	and the second s
B) Larynx and pharynx	
CTPons and medulla oblongata	-12 D. O. W.
	The second secon

6. Cap	illaries(الشيارة الدوم)	2MMy
c	force blood back to right heart atrium	epside E
0	have thicker walls	
e	increases surface area for gas and fluid exchange	
0	are under more pressure	
7. In ti	he four-chambered hearts (والقلب الرباعي الفين)	
XO	blood stays confined to vessels	
	the left side of the heart pumps blood from lungs to body	opsile **
	heart pumps blood through open-ended vessels	Franky.
	there is no answer	
	he four-chambered hearts	
Xo	heart pumps blood through open-ended vessels	
Xo	there is no answer	
Lt	there are two atria and two ventricles	
Xo	there are one atrium and one ventricle	
9. The	heart rate (معدل فربان القِلع)	
C	Prevent the backflow of blood	
C	is the amount of blood/minute pumped into systemic circu	it
C		
0	is a defect in one or more heart valves	
10. The	cardiac output(ال عبالثليم)	
C	defined as the number of beats/minute	
r	is a defect in one or more heart valves	
e	is the amount of blood/minute pumped into systemic circu	rit
-	prevent the backflow of blood	
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******************** <b>*</b>	*******	
16. The pacemaker (SA node)	المايستو (العقرة الحبب أذ	
relays electrical signals to the ventricles		
is the amount of blood/minute pumpe	ed into systemic circuit	
is the development of plaques inside walls of blood vessels		
generates electrical signals in atria	✓ <u>sets</u> the rate of heart contractions	
17. The AV node > miletin	العقرة الذف	
generates electrical signals in atria		
sets the rate of heart contractions		
is the amount of blood/minute pumpe	ed into systemic circuit	
relays electrical signals to the ventricles		
18. The blood pressure ( Chibaia)		
Highest in arteries and lowest in veins		
is the death of brain tissue from block	ed arteries in the head	
is the damage to cardiac muscle		
is the block of coronary artery		
19. The red blood cells (erythrocytes)	(d3/pa/8/5)	
transport O2 bound to hemoglobin		
promote clotting	✓ Transport carbon dioxide (CO2)	
fight infections		
fight cancer  20. The white blood cells (leukocytes)	(3/6/10/10/10)	
function inside and outside the circula	*	
are small fragments of cells	✓ fight cancer	
transport CO2	✓ fight infections	
transport O2 bound to hemoglobin	<b>1</b>	
	4 دکتور / خال الشعراوی اخیاء ۱۱۰	

21. The platelets (العمال العمال) promote clotting  fight infections  fight cancer  transport O2 bound to hemoglobin				
fight cancer				
transport O2 bound to hemoglobin				
are small fragments of cells				
22. Some athletes artificially increase their red blood cell				
production by injecting				
fibrinogen				
c immunoglobulins c sodium ions				
23. Plasma contains fibrinogen, which is converted into fibrin that				
help				
as pH buffering				
in blood clotting				
as solvent for carrying other substance				
C in defense				
24. The immu <u>noglo</u> bulin are proteins that help the body in				
A) Osmotic balance B) PH buffering				
الرفاع D) blood pressure				
25. If <u>blood vessel</u> is injured platelets help trigger the conversion of				
to				
A) Plasminogenplasmin B) Albumin aminoglobin				
P) Fibrinogenfibrin D) Immunoglobinalphglobin				
26. In birds, crocodiles, mammals havehearts and two				
b <u>lood circuits</u> that d <u>o not mi</u> x.				
A) 2-chambers  B) 4-chambers				
C) 1-chambers D) 3- chambers الكياء الله الطبيع المتعاد الكياء الله الطبيع المتعاد الكياء الله الطبيع المتعاد الكياء ا				

**************************************	**************************************	
1) The maintenance of steady internal	conditions despite fluctuations in the	
external environment is called		
Homeostasis	C Osmoregulation	
C Excretion	all of the above	
2) The maintenance of internal temper	rature within narrow limits is called_	
Osmoregulation	C Homeostasis	
Thermoregulation	C Excretion	
3) The control of the gain and loss of v	vater and solutes is called	
C All other answers are correct	C Thermoregulation	
Osmoregulation	C Homeostasis	
4) the active regulation of osmotic pre	ssure of an organism fluids is	
C Homeostasis	Thermoregulation	
Osmoregulation Osmoregulation	C All other answers are correct	
5) The disposal of nitrogen-containing	wastes is called	
Excretion	Osmoregulation	
C Homeostasis	C Thermoregulation	
6) _is the process by which waste pro	oducts are eliminated from an organism	
Excretion	Osmoregulation	
Homeostasis	** Thermoregulation	
7) Animals that derive body heat main	aly from their metabolism are called	
Endothermic	C Ectothermic	
C Herbivorous	Photosynthetic	
8) Animals that absorb heat from their surroundings are called		
C Herbivorous	C Herbivorous	
Ectothermic	Photosynthetic	
ماه خدمات الآليات الطريق تحديد عديد 177. 1800.	ع د کنور / خاله الشعب احداد الله الله على العام الله الله الله على الله الله الله الله الله الله الله ال	

9) Ectothermic animals	
use water and atmospheric CO2 to pro	duce sugar
absorb heat from their surroundings	✓ Many fish, most amphibians, lizards, most invertebrates
there is no answer	most invertebrates
* are represented by birds and mammals	
10) Endothermic animals	
Derive body heat mainly from their med	tabolism
X are represented by worms and Mollusca	s
absorb heat from their surroundings	✓ birds and mammals and few reptiles
are represented by worms and molluscs	
11) Animals exchange heat with the envi	ronment by
Conduction	birds and mammals and few reptiles
Pollination	✓ Convection
C Fertilization	✓ Radiation ✓ Evaporation
none of the above	Evaporation
12) The adaptations that promote the pr	ocess of thermoregulation include_
Behavioral responses	C Convection oasdo
Conduction	Radiation Financia
13) The <u>freshwater fish</u>	
O Drink seawater	ZYMMYZ.
Pump out excess salt	The copide of
Gain water by osmosis	
All other answers are correct	
الكان الكان الطين عبد ١٣٦٤ ١٨٥٥٠، عبد الكان الطين الكان الطين الكان الطين الكان الطين الكان الك	و دکتور / خال الشعرادی احداد ۱۱

14) In vertebrates the excretion is primarily carried out by			
Kidneys	C Lungs Skin		
<sup>C</sup> Gills	C there is no answer		
15) In mammals, the ureters drain uri	ne into		
urinary bladder	Renal artery and vein		
O Inferior vena cava	there is no answer		
16) In mammals, the urine is expelled	through		
Urethra	Aorta		
Inferior vena cava	Aorta and Inferior vena cava		
17) The key excretory processes of the	urinary system include		
9 Secretion	✓ Filtration		
Conduction	✓ Reabsorption ✓ Excretion		
C Radiation	Excretion		
Conduction AND Radiation			
18) The kidney dialysis can be a lifesay	ver by		
Maintaining the solute concentration	n in the blood		
there is no answer	✓ <u>Removing</u> wastes from the blood		
Maintaining the toxic compounds in	the blood		
Extracting a filtrate from the urine			
19) The nitrogenous wastes are toxic b	reakdown products of		
C Fats	Inorganic compounds		
C Fats AND Inorganic compounds	✓ Protein ✓ Nucleic acids		
20) The animals dispose of nitrogenous	s wastes in the form of		
C Sugar	O Nitrate Vurea		
Ammonia (NH3)	Nitrate AND Sugar		
ساء حبويث لللبات الطبيق جرة ١٣٦٤،٨٣٥٥٠	ح د کتور /خال الشعراوی اخیام ۱۱۰ کیا		

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21) Ammonia (NH3) is	✓ Poisonous		
C Easier to store	✓ Soluble in water		
non Poisonous			
Easily disposed of by aquatic animals			
C Less toxic			
22) Urea Is			
Easily disposed of by aquatic animals			
C Poisonous	✓ Easier to store		
Less toxic	Laster to store		
Soluble in water			
23) The <u>nitrogen</u> -containing metabolic waste	products in most aquatic		
animals is			
C Carbonate C Ur	ea		
C Uric acid	nmonia		
24)is the nitrogen-containing metabolic waste products in mammals,			
amphibians, sharks, and some bony fishes			
Carbonate Ure	ra en		
C Uric acid C Am	monia		
25) The nitrogen-containing metabolic waste	products in birds and many		
reptiles insects, and Snails is			
Uric acid C Ur	rea		
C Carbonate C Am	nmonia		
26) Excess of CO2 or O2 in the plant leaves exi	it through		
Stomata O Phi	loem		
Cortex C there	e is no answer		
✓ penetrating the external cell on surfaces	directly to the air		
١١٠ كيمياء خيوية لللنان الطبية عدة ١٢٦٥،٨٢٥٥٠	4 دكتور / خال الشعراوي اخياء		

	lutes by hydathodes found in the leafs
epidermis of some plants is c	alled
Guttation	C Transpiration
© Photosynthesis	there is no answer
28) The evaporation of water fro	m the surface of leaves through stomata is
called	
Photosynthesis	Transpiration
Respiration	there is no answer
29) The halophytes excrete the ex	cess salts outside their body by
Special salt glands	vascular bundles
Stomata	all of the above
30) Inthe excess of amino aci	ids are converted to ammonia and keto acids
terrestrial plants	aquatic plants
prokaryotic	All other answers are correct
31)convert excess amine	o acids into uric acid and Keto acids.
terrestrial plants	aquatic plants
c prokaryotic	All other answers are correct
32) The terrestrial plants conver	t excess amino acids into
Uric acid and Keto acids	ammonia and urea
c keto acids and urea	ammonia and Keto acids
33) In aquatic plants the excess of	of amino acids are converted to
Ammonia and keto acids	C uric acids and keto acids
keto acids and urea	ammonia and urea
اللَّهَانَ الطَبِينَ جِرةَ عَدَّ ١٣٦٢-١٢٥٥ عَدِيْ عَدِّ عَدِّ عَدِّ الْكَارِيْنِ وَ الْمُرْسِينِ عَدِيْنِ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَبِينَ الطَّبِينَ الطَالِقَ الطَالِقِينَ الطَالِقَ الطَالِقِينَ الطَالِقُ الطَالِقُ الطَالِقُ الطَالِقُ الطَالِقُ الطَالِقُ الطَالِقِينَ الطَالِقِينَ الطَالِقُ الطَالِقُ الطَالِقُ الطَالِقِينَ الطَالِقُ الطَالِقُ الطَالِقُ الْعَلَقِينَ الطَالِقُ الطَالِقُ الطَالِقِ الْعَلَقِينَ الطَالِقُ الطَالِقِ الْعَلَقِينَ الطَالِقِ الْعَلَقِينَ الطَالِقُ الْعَلَقِينَ الطَالِقُ الطَالِقُ الْعَلَقِينِ الْعَلِيقِ الْعَلِيقِ الْعَلِقِ الْعَلِقِ الْعَلِقِينِ الْعَلِقِينِ الْعَلِقِينِ الْعَلِقِينِ الْعَلِقِينِ الْعَلِقِينِ الْعِينِينَ الْعَلِقِينِ	حكتور / خال الشعراوي اخياد ١١٠ كيمياء خيورة ممممممممممممممممممممممممممممممم

34) Osmoregulation is the control of the of water and solutes and A) addition-subtraction B) acids-bases (C) gain-loss D) ions-cations 35) Mammals, birds, few reptiles are A) Ectothermic B) exothermic B) mesothermic 1 endothermic 36) Evaporating cooling of thermoregulation includes panting and A) breathing B) urinating C) sweating D) defecating cooling of thermoregulation includes panting and sweating. A) Extensive B) effective C) Transpirative (D) Evaporative 38) Osmoconformers are animals having the same internal concentration as seawater. A) blood B) basic LC) solute D) acid 39) Marine animals with a solute concentration equal to that of the surrounding seawater are A) osmoregulators. L B) osmoconformers. C) osmoinformers. D) hypertonic. 40) Many invertebrates are osmoconformers. A) Terrestrial B) marine C) Desert D) fresh water بالعقوم الى الأفرة)

ケナケナナナナ	********	<b>ナナナナナナナナナナナナ</b>	<b>ナナナナナナナナナ</b>
1) Sexua	al reproduction Involves	✓ inheritance of uni	que sets of genes
C	Offspring are similar to one parent	from two parents	
inheritance of unique sets of genes from one parent			
W.	Offspring are similar to parents, but show	variations in traits	
c	there is no answer		
2) Asexual reproduction			
	Very rapid reproduction		epitos director
	One parent produces genetically different of All other answers are correct	ffspring	
	unique offspring		
-	ual reproduction includes	Now 1	
Xc	there is no answer	Binary fission	र्द र्ख
		meiosis	Budding Fragmentation
4) Offspring of asexual reproduction  there is no answer			
are different from the original cell or organism			
(	Involves inheritance of <u>all genes</u> from two	parents	APT del
CInvolves inheritance of all genes from one parent			
5) Prok	aryotes are reproduced by	_	
Xc.	mitosis X <sup>C</sup>	meiosis 🗸 🗸	Binary fission
<b>Ø</b>	asexually	mitosis AND meiosis	
6) Prokaryotes are reproduced by			
ve	Binary fission XC	sexually	
03120	asexually AND binary fission	asexually	
7.AF00.	٢٦٤ قيم خيون لللهان الطلق خدة ٢٦٤		ا دگور / ۱۶۱۵ الشد ا دگور / ۱۶۱۵ الشد
*******	· 本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本	4.果你是在小孩也不在在我中	中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央

7) Binary fission	Zummy.
X o Occurs in eukaryotic cells	Sand Service S
means dividing in half	
produces two different cells from one cell	
there is no answer	
8) Fertilization is the union of	
All other answers are correct	
testis and ovary to form a sex organ	
sperm and egg to form a sex organ not haploid	
Sperm and egg to form a diploid zygote	
9) In Sexual reproduction, sperm may be transferred to the fe	male by
X Insects 5 123	l fertilization
Internal fertilization	Entered transportation of the second
X All other answers are correct	
* Wind 2 WIN	
10) Human Male Reproductive anatomy has	
Ovaries contain follicles that Nurture eggs and Produce sex hormo	ones
The uterus opens into the vagina through the cervix	aprile 2
Testes produce Sperm	Thurst.
C there is no answer	
11) Human Female Reproductive anatomy has	
Oviducts convey eggs to the uterus where embryos develop	and a series
Testes produce Sperm	Trumit .
Epididymis stores sperm as they develop further	
All other answers are correct	
راوى الياد ١١ كيمياء خيورة للليان الطبيخ جدة ع٢٦٢٠٨٢٥٥٠ م	1000 1000 1000 1000 1000 1000 1000 100

TO December 2011

TO December 2017

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12) The vagina	✓ Forms the birth canal
X Receive the egg from the ovary	
Is the site for egg fertilization	
Receives the penis during sexual intercourse	
★ C Is for external fertilization	
13) Both sexes in humans have	✓ Ducts for gamete transport
	✓ Structures for copulation
A set of gonads where gametes (sperms & ovum) are	e produced
Sepals Tyren	
Sepals AND Carpels	
14) Hermaphroditism (63)	
Two individuals with male and female reproductive	systems
Lone individual with make and female	
One parent produces genetically identical offspring	
One individual with male reproductive system and	he other with female
reproductive systems	
15) Which of the following statement is true?	- Lummy
Spermatogenesis (the sperm formation) Occurs in C	Ovaries Souls State on the state of the stat
there is no answer	- Maria
Spermatogenesis (the sperm formation) Occurs in s	eminiferous tubules
Oogenesis (the egg formation) Occurs in testes	
16) Menstrual Cycles Occur about every	days
29	
there is	no answer.
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16 December 2017

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17) Sperm are adapted to reach a Less mitochondria provide AT	P for tail movements	
Cubical shape moves more eas		
Many mitochondria provide A		
Head contains a diploid nucleu	us =	
18) Cleavage		
there is no answer  is a rapid series of cell division	ns Costo	
Embryo is getting larger  is a slow series of cell division	ns	
19) Gastrula produces		
a four-layered embryo	a two-layered embryo	
a three-layered embryo	a one-layered embryo	
20) The endoderm layer inside	the human embryo (gastrula) become	
A) Kidney	B) Skin and nervous system	
C) Muscle and bones	Digestive tract	
21) The ectoderm layer outside	the human embryo (gastrula) become	
A) Kidney	LOSkin and nervous system	
C) Muscle and bones	D) Digestive tract	
22) The mesoderm layer in middle the human embryo (gastrula) become		
A) Kidney	B) Skin and nervous system	
Muscle and bones	D) Digestive tract	
23) Which of the following is Co	ontribute to semen production?	
术 A) Epididymis	<b>₽</b> ®prostate	
<u>Mobulbourethral</u>	D) All of above are correct	
الكليان الطبين عدة عدد ١٥٠١مده،	الشعراوي أحياد الشعراوي أحياء ال كيمياء حيوية	

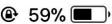
16 December 2017 ተተተተተተተተተተ	*************************************
24) The uterus opens into the	through the
A) penistestis	B) ovary oviduct
Vagina cervix	D) Folliclesembryo
25) A women cervix opens to the	, where embryo development
La Uterus Poll	B) Vagina List
C) Ovary	D) Oviduct
26) The female's, receives	s the penis during sexual intercourse
and forms the birth canal.	
A) Oviducts	L'B) vagina
C) Ovary	D) uterus
27) Follicle stimulating hormone (I	FSH) stimulates the growth of
A) Interstitial follicles	Ovarian follicles
C) The corpus leuteum follicles	D) Sperm cells
28) Leutenizing hormone (LH) stin	nulates
A) Interstitial follicles	B) Ovarian follicles
2 Ovulation	D) Sperm cells
29) Estrogen and progesterone are	produced by
A) anterior pituitary.	Corpus luteum
C) hypothalamus.	D) ovarian follicle
30) Meiosis of the ovum is complete	ed after
A) Regeneration	1 Coffertilization
C) Packing	D) manufacturing
31) Many aquatic invertebrates an	d most fishes and amphibians exhibit
A) Internal fertilization	Dexternal fertilization
C) Copulation	D) regeneration
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19) The all Mitotic phases of Eukaryot	
Prophase, Prometaphase, Metaphase,	, and Telophase
Prophase, Prometaphase, Anaphase,	and Telophase
Prophase, Prometaphase, Metaphase	, and Anaphase
Prophase, Prometaphase, Metaphase,	, Anaphase, and Telophase
20)is (are) Chromatin cond	denses and chromosomes become visible
C Anaphase	C Metaphase
Prophase	All other answers are correct
21)is (are) Chromosomes align	on cells midplane on top of each other
Prophase	C Telophase
Metaphase	there is no answer
is (are) Sister chromat	ids separate move to opposite poles.
Anaphase	Metaphase
C Prophase	All other answers are correct
is (are) <u>Sister chromati</u>	ids separate, move to opposite poles.
C Prophase	C Telophase
Metaphase	V there is no answer
24)is (are) Chromosomes of	decondensed. Cytokinesis begins
Telophase	O Prophase
C Metaphase	All other answers are correct
25) Prophase	
C Chromosomes decondensed. Cytokin	esis begins
Chromosomes align on cells midplan	e on top of each other.
there is no answer	
Chromatin condenses and chromoson	mes become visible.
ياء خيويت للتليان الطبين جرة ١٣٦٢-٨٢٥٥٠ م	عدد معدد المسراوي الماء ١١١ كيم

To December 2011

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Chromosomes decondensed. Cytokinesis begins
Chromosomes align on cells midplane on top of each other.
there is no answer
Chromatin condenses and chromosomes become visible.
27) Anaphase
Chromosomes decondensed. Cytokinesis begins
Sister chromatids separate, move to opposite poles.
K Chromosomes align on cells midplane on top of each other.
Chromatin condenses and chromosomes become visible.
28) Telophase
Chromosomes decondensed. Cytokinesis begins
Chromosomes align on cells midplane on top of each other.
there is no answer
Chromatin condenses and chromosomes become visible.
29) Cytoplasmic division
is called Cytokinesis  overlaps with telophase
* overlaps with tetophase
is called Cytogenesis
overlaps with Anaphase
30) Cytokinesis in animal cells
A cell plate forms in the middle from vesicles
Forms a cell plate separates the contents into two cells
forms a cleavage furrow
All other answers are correct
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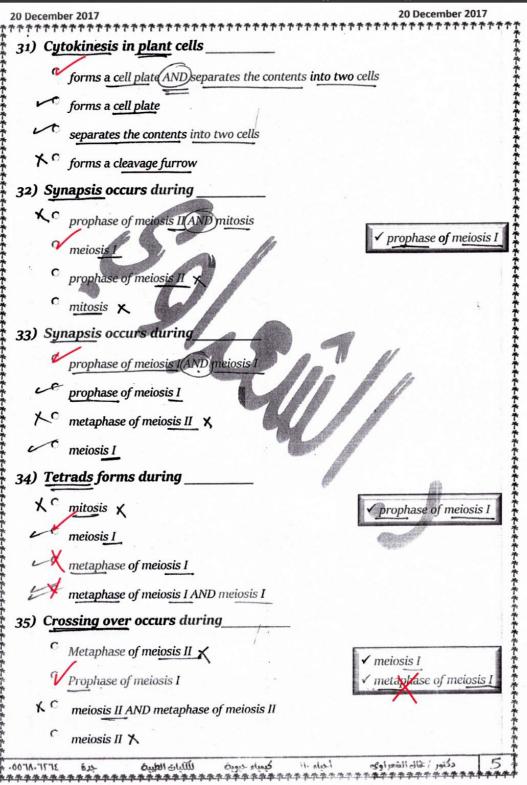








## احياء الدوري النهائي شابتر ١١ ، شابتر ١٢ جزء١،٢ كا...



26 of 39





















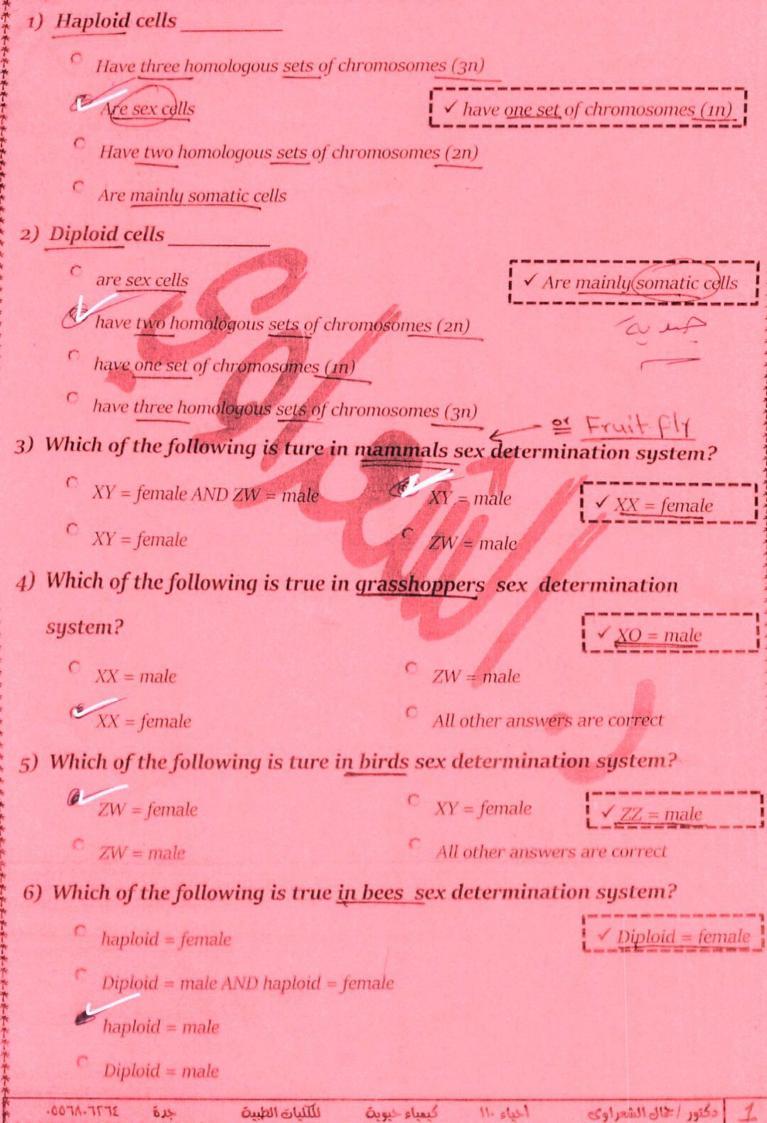








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36) Sister chromatids separate du		
mitosis	X C_telophase	✓ meiosis II
Anaphase	✓ C mitosis I	
37) Sister chromatide separate du	ring	
meiosis II	Anaphase	
mitosis gan	All other answers a	are correct
38) homologous chromosomes sep	parate during	
C meiosis I AND Anaphase X	Anaphase X ← meiosis I	witosi's
39) During meiosis I		
sister chromatids separate  diploid cell is produced	✓ <u>homolog</u> ous chr ✓ <u>haploid cell</u> is pr	omosomes separate oduced
The chromosome number is redu	uced by half 2n to 1n	No.
All other answers are correct		
40) During meiosis II		
The chromosome number is redu	uced by half	
sister chromatids separate	✓ chromosome number	
C All other answers are correct	✓ <u>haploid cel</u> l is produ	iced
homologous chromosomes separ	rate	
41) Meiosis		
has one interphase		The same
has one cytokimesis		The strong of th
produces diploid cells		
has two interphases		
وين اللَّيَانَ الطبيع جدة ١٢٦٢-١٨٥٥٠	عراوی اخیام ۱۱۰ کیمیام خیو	ح د کتور / خال الش



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7) Copy of a gene is called		
C Sister chromosomes AND Gametes	C Sister chromosomes	
C Gametes	@ alleles	
8) Which of the following is Homozyg	ous?	
C ab	Two identical alleles	✓ AA ✓ aa
C Aa AND ab	C Aa	L
9) Which of the following is Heterozy	gous?	
Aa Aa	o aa ✓ Two	different alleles
C AA AND aa	C AA ✓ ab	
10) Alleles that is expressed in the het	erozygous	
Dominant allele	Recessive allele	
11) Alleles that is not expressed in the	heterozygous	
C Dominant allele	Recessive allele	
12) Open circle in human pedigree is s	ymbol for	
C affected female	normal female	
normal male	affected male	<b>6</b>
13) Filled circle in human pedigree is	symbol for	
affected female	normal female	
normal male	affected male	
14) Open square in human pedigree is	symbol for	
affected female	normal female	
normal male	C affected male	
15) Filled square in human pedigree is	s symbol for	
affected female	normal female	
normal male	affected male	
وينَ لللَّهَاتَ الطبينَ جِرةَ ١٣٦٢-١٣٥٥.	راوی اخیاه ۱۱۰ کیمیاء خی	2 دکتور /خال الشه

C Filled square	C Filled circle
there is no answer	Open circle
17) Affected female in genetic pe	edigree is represented by
<sup>C</sup> Filled square	Filled circle
C Open circle	C All other answers are correct
18) Normal male in genetic pedi	gree is represented by
Filled square	Filled circle
Open square	there is no answer
19) Affected male in genetic ped	igree is represented by
Open square	Filled square
Open circle	Open circle AND Open square
20) In Mendel experiment, the h	eritable factors is now known as
<sup>C</sup> chromatids	chromomers
there is no answer	genes
21) Which of the following state	ments are true
Recessive allele appears in the	F1 generation
Recessive and dominant allele	disppear in the F2 generation
All other answers are correct	
dominant allele appears in the	F2 generation
✓ in the F1 generation	✓ in the F2 generation
o dominant allele appea	o dominant and Recessive
Recessive allele dispp	ear allele appear
l	

so becomper sory

22) Which of the following is an exception to Mendel	s Laws?
X° dominance	✓ Incomplete dominance
Co-dominance	✓ multiple alleles
7 ° recessiveness	✓ polygens
★ ○ Segregation	✓ poliotropy
is referred to as Heterozygote express	es phenotypes of both
homozygotes.	
Pleiotropy Incomplete	dominance
there is no answer Multiple all	leles
24)is referred to as Heterozygote has inte	ermediate phenotype.
there is no answer Codominan	ce
Pleiotropy Incomplete	dominance
25)is referred to as three or more alleles in a pop	ulation for same locus.
Incomplete dominance Multiple all	eles
Polygenes C Pleiotropy	
26)is referred to as Multiple independent	pairs of genes may
have similar and additive effects on the phenotyp	e
In omplete dominance	eles
Polygenes	
27)is referred to as the phenomenon of on	e gene mutation being
responsible for or affecting more than one pheno	typic characteristic.
Incomplete dominance Multiple alle	eles
Polygenes Pleiotropy	

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للكلبات الطبية

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كيمياء خيوين

احياء ١١٠

دكتور / خال الشعراوي

20 December 201/

alleles		
A) Diplozygous heter	ozygous	
1 heterozygoushom	ozygous	
C) homologous homo	ozygous	
D) homozygousheter	rozygous	
o) The Phenotypic ratio	of F2 generation in monohyb	rid cross is
1 3:1	B) 4:1	
C) 1:2:1	D) none of the ab	ove
1) The genotypic ratio o	f <u>F2</u> generation in monohybri	d cross is
A) 3:1	1:2:1	
C) 2:3	D) all of the above	е
2) In mendel <u>s F2</u> genera	tion, one out of four plants ha	d one white flower
because		
A) The trait is sex -linked	d	
both patterns where h	eterozygous purple	
C) One parent was homoz	zygous reccsive	
D) both patterns where h	eterozygous white	
	/	
	الأخرة	
	-/./	

اخياء ١١٠ كيمياء خيوين للكيان الطبين \*\*\*\*\*\*\*\*\*\*\*\*