جمهورية مصر العربية وزارة التربية والتعليم امتحان شهادة إتمام الدراسة الثانوية العامة لعام ٢٠١٧ م { الدور الأول } نموذه المرادة الأحرام الانتحان ة	(۱٤۷) ث . ع / أول
Answer for question (1): (A) Choose the correct answer:	
امتحان شهادة إتمام الدراسة الثانوية العامة لعام ٢٠١٧ م { الدور الأول } نموذج إجابة الأحياء بالإنجليزية for question (1):	

And		or for question (1):						
		er for question (1): hoose the correct answer	••					
(A)		The hormone that causes		w ic	horn	none		
	1-	a) Parathormone					d) Growth	
	2	From the immunological	•		•		•	
	4 -	the	substance	mat represen	iit tiic sc	cond fine of d	erense is	
		a) Interferons	h) Cerume	n c) Hydro	chloric acid	d) Mucus	
	3_	The male reproductive of	rgan in fern	e ie known	e ilyulo	cinoric acid	u) Wideus	
	J -	a) genital processes					d) antheridia	
	1_	The chemical substances						
	-	immune cells are called.			iiiiiuiiice	ition octween	different	
		a) Chemokines) Comp	lements	d) Interferons	
	5-	The number of ribs that a						
			b) 24		c) 10	00ne 15	d) 20	
	6-	The individuals produced	,		/	in hees are	u) 20	
	U	characterized by			<i>5</i> 50111515	m bees are		
		a) diploid chromosomal		•				
		b) identical to the queen		omal numbe	er			
		c) identical to the male's						
		d) identical to the worke						
(R)	M	ention the site and functi				hy nlacing th	e suitable letter	
(1)		front of the numbers tha		or the iono	/\\' - 111- g• \(<u>-</u>	by placing th	<u>e guitable lettel</u>	
		he Sentences:	<u> 110</u>)•					
		They found in plants and	l stimulate t	he innate in	nmune s	vstem in the n	lant.	
		They secreted around the			•	_		
)	within the plant.			r- r	<i>j</i>		
	c)	It is located at the top of	the sperm's	head and se	ecrets the	e hvaluronic e	nzvme.	
		Finger - like projections g						
		secret progesterone horm						
	e)	The link that connects the		limbs with	the vert	ebral column.		
		ructures:	11					
) 2-	The acroso	me () 3- The	Placenta ()	
	4-	The pectoral girdle (The receptors (5-	The gums	()		
(C)		udy the opposite diagran		_			tibody.	
	Then answer the following questions by choosing the correct answer:							
		Statement No. (4) represe		•	_			
		The disulphide bond is the		_		_		
		The structure No. (6) is				_	,	
	,	(antigen-binding site – co		binding site	e –	4	-1	
		light chain — hinge region	n)				8	
						7	7	

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Ans	wer for question (2):						
(A)	Write the scientific term: (by putting the term numb	er in front of the suita	<u>able</u>			
	Sentence):						
	The Terms:						
	1- Amnion	2- Interstitial cells	3- Non histone				
	4- Acetabulum cavity	5- Sertoli cells					
	The Sentences:						
	a) A structure where the hea	nd of the femur fit.		()		
	b) Structures in the testis res	ponsible for the secretion of	of male hormones.	()		
	c) A group of cells inside th	e testis responsible for nou	rishing the sperms.	()		
	d) Membrane surrounds the	human embryo and contain	s liquid that protects th	e fetus	S		
	from dryness and shocks.			()		
	e) Regulatory proteins found	d within the nucleus of euka	aryotes.	()		
(B)	Explain the importance of	each of the following: (by	placing the suitable le	etter ir	<u>1</u>		
	front of each sentence):						
	1- Parthenocarpy	2- Tissue culture	3- Triple fusion				
	The importance:						
	a) The formation of the endo	ospermic nucleus, which is	the tissue that feeds the	embr	yo		
	in its early stages of deve	lopment.		()		
	b) The formation of seedless	s fruit without pollination of	r fertilization.	()		
	c) The propagation of rare p	lants and the production of	strains resistant to disea	ases. ()		
(C)	Correct the underline wards: (by placing the suitable letter in front of the following						
	phrases):						
	The Sentences:						
	a) In the DNA molecule, the	e number of adenine equals	the number of guanine	<u>e</u> . ()		
	b) DNA <u>Polymerize</u> enzyment	e repairs the defects of DNA	A.	()		
	c) The ability of the ovum to	o develop into a new individual	dual without fertilization	n is			
	called regeneration .			()		
	d) The infective stage causing	ng malaria disease to the hu	mans is the				
	female anopheles mosqu		()			
	e) Hershy and Chase labeled	active <u>sulfur</u> .	()			
	The Corrections:						
	1- parthenogenesis	2- phosphorus	3- sporozoites				
	4- thymine	5- ligases					
			3- sporozones				

Answer for question (3):

(A) Choose from column (A) what is suitable for column (B):

Column (A)	Column (B)		
1) Gastrin	a) converts glycogen to glucose.	()
2) Insulin	b) converts glucose to glycogen.	()
3) Glucagon	c) secreted from Graafian follicle.	()
4) Thyroxin	d) secreted from interstitial cells in the testis.	()
5) Estrogen	e) secreted from the cells of the stomach wall in the blood.	()
	f) secreted from the thyroid gland.	()

(B) Name the chemical substance responsible for the following functions:

(Put the numbers of words in front of the correct sentence)

The functions:

a) They destroy microbes after the association of antibodies.	()
b) They produce antibodies.	()
c) They bind to toxins to detoxifying them.	()
d) They recruit of large circulating phagocyte cells towards the site of microbe	S	
to reduce its spreading and its multiplication.	()
e) They increase the permeability of arterioles and blood capillaries of fluids fr	om	
the blood circulation.	()

The chemicals:

1- Antibodies

- **2-** Chemokines
- **3-** Complements

4- Histamine

5- Plasma B cells

(C) Select the odd word in the following:

- 1- Calex corolla amnion gynoecium.
- **2-** The coil surgical sterilization condom renucleation.
- **3-** Female Anopheles mosquito Merozite Ookinete male Anopheles mosquito.
- **4-** Interstitial cells spermatogonia spermatids the corpus luteum.
- **5-** Binary fusion conjugation budding regeneration.

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Answe	er for question (4):			
(A) <u>Pu</u>	t (Y) or (X) in front of each of the following expressions:			
1-	The induced mutation is developed by man to produce desirable c	hanges in the	e trait	S
	of the organisms.	_	()
2-	The deoxyribonuclease enzyme hydrolyses RNA completely.		()
3-	Hand wrist is considered as a wide-movable joint.		()
4-	The phosphate group is linked to carbon atom No. 5 in the pentago	on sugar by		
	a hydrogen bond.		()
5-	DNA wound in the form of double helix each turn containing 10 p	airs		
	of nucleotides.		()
(B) Co	omplete the following sentences: (put the suitable number before	e each stater	<u>nent</u>)):
1-	The number of amino acids is.		()
2-	The number of DNA nucleotides is.		()
3-	The number of female gametes produced from each primary germ	cell is.	()
4-	The number of eggs that mature from ovaries throughout the period	od of		
	fertility.		()
5-	The number of days of pregnancy in man.		()
	The numbers: $(400 - 270 - 20 - 4 - 1)$			
(C) Gi	ve reason for each of the following: (by placing the suitable lette	e <mark>r in front o</mark>	<u>f</u>	
the	<u>e following sentences</u>):			
Th	ne Sentences:			
1-	Spirogyra algae turn to reproduce by conjugation.		()
2-	Reproduction function ensures the continuation of the species after	r the individu	uals	
	are eliminated.		()
3-	Fruits of apples and pears are known as false fruits.		()
4-	The absence of seeds in some fruits such as bananas, pineapple an	d seedless gr	rapes.	
			()
5-	Removal of the corpus luteum before the fourth month of pregnan	cy leads to		
	abortion.		()
<u>Th</u>	ne reasons:			
a)	because it is formed as the result of parthenogenesis, without polli	nation or		
	fertilization.			
b)	because it does not arise from the enlargement of the ovary, but from	om the recep	tacle	
	enlargement.			
c)	because if this function was disrupted completely that leads to the	extinction of	f	
	the species.			
d)	to overcome the unsuitable conditions such as drought, change wa	iter temperati	ure	
	or purity.			
e)	because this leads to stop the secretion of Progesterone hormone, s	so that remov	ve	
	the endometrium causing bleeding and the death of the fetus.			

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\ns	swer for question (5):				
A)	What is meant by? (put t	he suitable letter in f	ront of each statement)	•	
	The term:				
	1- sarcomere	2- lumber	3- rib cage	3	
	4- pubic symphysis	5- rib			
	The Sentences:				
	a) A conical case, connected	posteriorly to the vert	ebrae and anteriorly to		
	the sternum.			()
	b) A curved bone bends and a	attaches posteriorly to	the centrum of a vertebra	a and its	
	transverse process.			()
	c) The region where the two	halves of pelvic girdle	fused ventrally.	()
	d) The largest vertebrae of the	e vertebral column in	the abdominal region.	()
	e) The distance between the t	wo successive (Z) line	es at the middle of the lig	ght band.	
				()
B)	Give an example for each of	the following: (Put t	he suitable letter in fro	nt of eacl	<u>1</u>
	statement):				_
	The Sentences:				
	1- A unicellular organism rep	roduces by budding.			
	2- Flatworm reproduce by reg				
	3- Males produced from natural				
	4- Plants reproduce by spores	_	nodel of alternation of ge	enerations	S.
	phenomenon.		C		
	5- An apical solitary flower.				
	Examples:				
	a) Ferns b) Yeast	c)Tulip	d) Planaria	e) Bees	S
C)	What happens? (Put the	-	•	•	
-	1- Disappearance of interstition			()
	2- Polyploidy occurs in the pl			()
	3- The deficiency in the calci	•	es.	()
	4- Frog eggs are exposed to the			()
	5- Tie or cut the fallopian tub			()
	What happens:				
	a) Produce plants with new tra	its as the large fruited	plant.		
	b) Does not form transvers link	_	_		
	c) Do not secrete male sex hor				
	d) No fertilization of ova that p		ries.		
	e) Duplication of chromosome			tely simila	ar
	to their mothers.	1 1	1	•	
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