نهوذج اجابة مادة الأحباء (باللغة الانجليزية) لشهادة اتهام الدراسة الثانوية العامة - الدور الأول - العام الدراسي 20 27/ 2018 النموذج (د) 1- Lymphokines (Page 105) (one mark) (b) Major histocompatibility complex (Page 102) (one mark) 3-(A) or (B) (one mark) (A) A strong connective tissue that link the muscles with bones at the joints (Page 12) (B) The membrane which surrounds the sarcoplasm (Page 16) (one mark) (Page 44) $1^{\underline{st}}$ - Formation of drones (Page 45) 2nd - Tobacco plant – carrot When merozoites infect the red cells they pass several cycles they produce huge numbers of merozoites that are released together every 2 days with the destruction of infected red blood cells and formation of toxic substances. (Page 49) (one mark) 6- Be lethal and cause miscarriage. (Page 128) (one mark)

4. 1414.14 70 M. 10m. MY . 14 70 31 10 31 NY . 14 John 198 نموذج إجابة مادة الأحياء (باللغة الإنجليزية) لشهادة إتمام الدراسة الثانوية العامة - الدور الأول - العام الدراسي ٢٠١٨/٢٠١٧ النموذج (د)

14.14 70 A1 10m

14.14 70 A 10m

(Two Marks) 7- (A) or (B)

(A)

Neutralization	Agglutination
The antibodies bind to the outer coats of the viruses, this binding will prevent the viruses from adhering to the membranes of the host's cells and from spreading or pass to inside them (Page 97)	Some antibodies has many antigen- binding sites, which enable each of them to bind to more than one microbe, this leads to the clumping of microbes on the same antibody to be engulfed by phagocytes. (Page 97)

(B)

التعللط تغيينا

1841 1921

(Page 88)	Antibodies can bind to toxins and form complexes of antibodies and toxins these activate the complements to react with them in a chain reaction which leads finally to detoxifying them. (Page 98)
7.10/7.17 (7 a 2/1 - 1)	الدور الأول المراجعة

149(1601

التعللط تغيينا

الدور الذما

14 78 11 18 11

(Page 127) (Two Marks) 1st) UAG GAG

2nd) Changing the type of amino acid that is lead to change of protein 3rd) RNA polymerase

9_ (Page 28) (Two Marks)

Its effects on	الأول المالية المعرادة المعرد	FSH
	The formation and	S. IV
in	secretion of interstitial cells	The formation of the
Male	in the testes for complete	seminiferous tubules and
1 19"	the sexual maturity of	spermatozoa in testes
۲.	individual.	X-1N
· · · · · · · · · · · · · · · · · · ·	Stimulates the formation of	The growth of the ovarian
Famala	corpus luteum for complete	follicles and formation of
Female	the sexual maturity of	
۲.	individual.	grafian follicles

14. 14 John 1941

MY . 14 John 1941

4. Mr. 1 John 192

4.11/4. 17 Jost 1921

10- The muscle still in a contraction state and leads to muscle fatigue. Or the muscle does not contract if it is in rest state.

(Page 19) (one mark)

11- d) Histamines.

(Page 100) (one mark)

12-(A) or (B) (one mark)

- (A) It can transfers the drugs, harmful substances such as alcohol, nicotine, viruses from mother's blood to the embryo which cause great harms, serious deformities and diseases to the embryo. (Page 69)
- (B) If the age decrease or exceeds that range, both the mother and the embryo will be subjected to serious problems, moreover, the possibility to produce deformed babies will increase. (Page 71)

13- Both whorls are called perianth (Page 53) (one mark)

14- Mobile macrophages (Page 94) (one mark)

15- (Page 29) (one mark)

Increasing in the reabsorption of water in nephrons and decreasing the volume of urine excreted. In addition, it increases blood pressure and stimulating the release of milk from mammary as a response of lactation.

4. M. A. 1 A 70 gl 30 m. نموذج إجابة مادة الأحياء (باللغة الإنجليزية) لشهادة إنمام الدراسة الثانوية العامة - الدور الأول - العام الدراسي ٢٠١٨/٢٠١٧ النموذج (د) 16- (A) or (B)
(A)

4.11/4.

(Two Marks) 4. Mr. 14 70g

(4 703/1 30%

(4 J9H 19H

تعديد الملابة المراجعة

7. 14 John 194

Wantell dami

تسخة للطلبة المراجعة

1,31 1921

(A)

المراجع	Lysis The binding between antibodies and	Binding	Precipitation between		ies and
11 00	antigens activates specific proteins and enzymes called complements to lyse the coats of antigens and dissolve their content which makes	formatio antibody	antigens on of inso or complexe ate to facilit	oluble s s which	antigen- form a
المراجع	them easily engulfed by phagocytes. (Page 98)	by phage	ocytes. (Pa	nge98)	المراجعة

(B)

المستخ المطلبة للملا اجع

Wallett de mi

الدور الذم

المعلية المعلومة

الدور الذور

	(D)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11-02-
المة للمراجع	B-cells	T - cells	1 John 192
4.12.	المراجعة الم	المراجعة الم	. Talami
الم المراج	Production: in red bone marrow. Maturation: in the bone marrow	Production: in red bone marrow. Maturation: in the thymus gland.	1 Joy 1994
4.17/4	(Page 92)	(Page 92)	žs.
بدة لا	المور الأوا الموالية المعالمة الموالية	الدور الأوال المنظمة ا	الور الزوا المال
4. MY.	13-11/2° 13-11/2°	Tankla, Tankla.	140,
	*	*\ *\	1

(14)941

تسخة للطلبة المراجعة

17- (Two Marks)

1st) DNA duplication - each new cell receives a complete copy of the original cell's genetic information. (Page 121)

2nd) Adding new nucleotides to the 3 end for the new strand.

If strands remain undamaged the repair enzymes can use it as a template to replace a damaged segment in its partener. (Page 122)

18- (Page 62) (Two Marks)

The head: It contains the nucleus with 23 chromosomes. There is an acrosome in the forehead which secretes the hyaluronic enzyme that dissolves a part of the ovum membrane, to facilitate its penetration process.

The neck: It contains two centrioles which play an important role in the fertilized ovum division

النور الأول به .

19- (A) or (B) (one mark)

(A) Cartilage (Page 10)

(B) Acetylcholine (Page 17)

20- (A) or (B) (one mark)

(A) Sticky disc at the end of the style in carpels – Where pollen grain adhere.

(Page 53)

(B) On one side of the body of Hydra – forming a bud. (Page 42)

21- (A) or (B) (one mark)

- (A) Overgrowth of the protoplast of adjacent living parenchymatous cells which protrude into xylem vessels and tracheid through pits. (Page 86)
- (B) The gum secreted within the cells surrounding the locus of infection to prevent the entry of microbes inside the plant (Page 87)

22- (b) maturation (Page 61) (one mark)

23-

To destroy microbes in blood after their conjugation with antibodies, they lyses the membranes of antigens and dissolve their content, which makes them easily engulfed by phagocytes. (Page 94) (one mark)

24-

The double strands of DNA were not separated as a result of breaking the hydrogen bonds between the paired (stopping the DNA replication).

(Page 120) (one mark)

25(Page 64) (Two Marks) 1^{st}) 10 days
(½ Mark) 2^{nd}) (2) Estrogen & (3) Progesterone
(½+½=1 Mark) 3^{rd}) Haploid or (N) or (23 chromosomes)
(½ Mark)

26-

1- Hormones of the Adenohypophysis (anterior lobe)

Prolactin: stimulates milk secretion from mammary glands. (Page 28)

2- Hormones of the neurohypophysis (posterior lobe)

Oxytocin: stimulates the release of milk from mammary glands as a response of lactation. (Page 29) (Two Marks)

$$\overline{5}$$
....AUG - AAU - UCG - UAA..... $\overline{3}$

28-(A) or (B) (one mark)

(A)Angiospermae (Page 52)

(B) Phase of proliferation (Page 67)

29- The bacterial transformation will stopped and the group of mice will still alife. (Page 113- 114) (one mark)

30- c) Meiosis and mitosis. (Page 54) (one mark)

31- Identical (monozygotic) twins (Page 73) (one mark)

32- (Page 57) (one Mark)

In which the integuments of the ovary and ovule fuse together forming a single seeded fruit called grain In these plants they store food in the cotyledons, hence these seeds are called two cotyledons seeds, where the integuments of the ovule harden forming the seed testa, it is called (seed) as in bean and pea seeds.

4. 1414. 14 70 M. 10m. 1 VIX - 1 A 70 31 30 34 MY - 17 John 19m W. 14 70 11 10g نموذج إجابة مادة الأحياء (باللغة الإنجليزية) لشهادة إنمام الدراسة الثانوية العامة - الدور الأول - العام الدراسي 2018/10/ النموذج (د)

4.14 70 31 70 34

33-The body will use a 3rd line of defense that included lymphocytes called; acquired immunity (specific or adaptive immunity) (Page 101) (one Mark) V 1931 1941

المواد الأول بن

- 14 70 Al 10 Al

14. 14 John 1981

4 7241 30g

Y. INT. IV JOH 194

4. INT. 1 John 194

4. 14 19 John 194

1. 14 1 19 John 192

W. W. W. W. 1941 1941 34- (A) or (B) (Two Marks) حنة المطلبة الممراجع

W. W. W. 14 70 11 10 11 10 11

4. 1/14. 14 Jost 1921

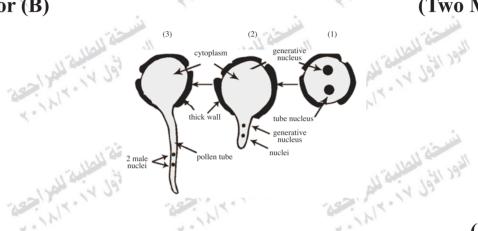
4. 14. 14 Jost Jost

المستخة للطلبة للمراجع

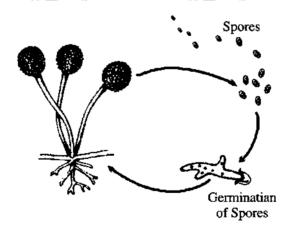
4. MY. 17 John 1941

التعللط تغيينا

تعددة المطلبة للمراجعة



مست المالية المراجع NY 1 1921 1921 (Page 56) Y. 14 197 تعددة المطلبة للمراجعة حجا لمملات المعراجع



سحة المالية المراجع (B) 941 1941 1/4. 14 John 1941 (Page 44)

35- (Two Marks)

1st) Curve (B) muscle fatigue & curve (C) muscle spasm

(Page 19-20) (one mark)

2nd) The muscle still in the case of contraction and can't relax due to the shortage of ATP in the muscle leads to prevent the separation of the transverse links from the action filaments that causing painful muscle spa sm. (Page 19-20) (one mark)

36- (Page 127) (Two Marks)

1st) This change in DNA molecule leads to gene mutation.

(one mark)

2nd) Yes, (½ (Mark)

- Protein will be formed but differ from that wanted or no. If the AUG is a start codon.
- The playpeptide chain will not be formed due to absence of start codon.

(½ (Mark)

-(11)

37-(A) or (B) (one mark)

(A) The genetic code (Page 136)

(B) Reverse transcriptase (Page 144)

38-(A) or (B) (one mark)

- (A)The plant stem approaches the support and grows vertically (supporting tissue) (Page 13)
- (B) Destroys acetylcholine into choline and citric acid so the membrane permeability to ions returns to the resting state, it is now ready to be stimulated and respond again. (Page18)

39- (A) or (B) (one mark)

- (A) To form four haploid cells, three of them degenerate and the fourth divides by mitosis to form new filament. (Page 48)
- (B) Because the corpus luteum degenerates gradually, consequently, the secretion of progesterone stops and so the endometrium degenerates and blood vessels tear due to the successive contraction of the uterus.

(Page 67)

40- Half for each = (one mark)

1st - Tissue culture (Page 45)

2nd - Parthenogensis (Page 44)

(c) The lymph nodes

1 Joy 1921

(Page. 90) (one mark)

(one mark) 42-

- (one mark)

 1- Used to tell whether a particular gene is present in its genome and in what amount. what amount.
- 2- Used to determine evolutionary relationships between different species.

(Page 141)

(Two Marks) 43-

1ST) 5.....UAC - CCC - GGC - AGG..... 3

1. 14 John 1981

(Page 137) Tyrosine - Prolines - Glycine - Arginine

14 7841 1891

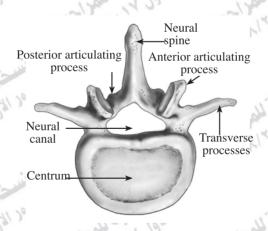
4. 11. 14 Jost 1921

(Page 7) (Two Marks) 4.17 1931 192

1 John 1941

٢٠١٧ المؤل ١١ ، ٢

1. 1 John 198



45-

عجالملا تبلطة المحاجد

عبدخة المالية المراجع

4. MY. IV JOH 1941

عجا لملا تعليدة للمراجع

4.1 M. 14 John 1941

اجع المطلبة للمراجع

المستخ المالية المراجع

4. 11/4. 14 70 A1 10 A1

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4. 1 N. 1 Y John 1941

تعدد المالية المراجعة

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تعددة المطلبة للمراجعة

المحلية للمالية المحلم

تعدد المطلبة للمراجعة

Y. MY. IV John 1941

Y. MY. 14 John 1941

Y. MY. IV JOH 1941

المعلية المعلومة

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7. NY. 14 John 1941

Y. 1 NY . 1 Y JOHN 1941

7. Mr. 14 John 1941

تعديد المطلبة للمراجعة

Y. 14 194 194

تعددت المطلبة للمراجعة

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تعديد الملاقية المراجعة

تعدية الطلبة المراجعة

1. 1. 1. 1. John 192

1. 1. W John 192

Y. INT. IV JOH 194

- (Page102) (Two Marks)
 its lysosome Engulf the antigen and digest it by its lysosomes enzymes into (½ (Mark) fragments.
- (½ (Mark) 2nd) To transfer the complex resulting from the binding between the antigen and the MHC to the plasma membrane of the mass. on its outer surface. (Page 102) (one mark)
- (½ (Mark) 3rd) Lymphocytes does not recognize this antigen.

المعلية للمالجحة

المعلية للمالمة المحدة

تعددة المطلبة للمراجعة

المحلية للطلبة للمراجعة

7. MY. 14 John 1941

Y. 1 NY. 14 John 1941

7. MY. 14 John 1941

Y. MY. W Jost 1921

المعلية المعلومة