

## جمهورية مصر العربية

وزارة التربية والتعليم والتعليم الفني

امتحان شهادة إتمام الدراسة الثانوية العامة لطلاب الدمج التعليمي

المادة : ( الأحياء بالإنجليزية ) / ( دمج شلل )

( الإجابة فى نفس كراسة الأسئلة ) الدور الثانى ٢٠٢٢ م زمن الإجابة : ثلاث ساعات

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		مقدر السؤال	مراجع السؤال
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مجموع الدرجات

رقم المراقبة

مجموع الدرجات بالحروف :

امضاءات المراجعين :

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رقم المراقبة

اسم الطالب رباعيا /

الدرسة / الإدارة /

رقم الجلوس / المحافظة /

التوقيع

الإسم

-١

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توقيع الملاحظين بصحة البيانات  
ومطابقة عدد أوراق كراسة الإجابة  
عند استلامها من الطالب

2022

غير مصرح للطلاب بالكتابة في هذه الصفحة

2022

غير مصرح للطلاب بالكتابة في هذه الصفحة

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**The first group: from 1 to 9**

**1- Choose one of the two questions (a) or (b), then mention the scientific term that indicates it.**

(a) A protein that suppresses the immune response and is secreted from suppressor T cells.

.....

(b) A perforation-inducing protein secreted from cytotoxic T cells.

.....

**2- Choose one of the two questions (a) or (b), then correct what is underlined:**

(a) The genetic material of the bacteriophage virus is the protein.

.....

(b) Calcium element get in the structure of the genetic material, distinguishing it from protein.

.....

**3- Choose one of the two questions (a) or (b), then choose the odd word in the following words:**

(a) Amoeba - hydra - sponge - planaria.

.....

(b) gametophyte - antheridia - archegonia – corolla

.....

**4- The bond linking sugar with guanine in DNA is covalent or hydrogen?**

.....

**5- Choose the correct answer from the following:**

The number of ribs that make up the human rib cage is .....

A- 20

B- 24

C- 33

D- 34

**6- Put (✓) if the following statement is true, or (×) if the statement is wrong:**

The membrane that surrounds the muscle fibers is called the sarcoplasm. ( )

**7- Choose from the statements of column (B) what fits the statements of column (A):**

( a )	( b )
1- Tears are considered ( )	(a) First line of defense.
2- Inflammatory response . ( )	(b) Second line of defense.
	(c) Third line of defense.marrow.

**8- Name the gland that secretes the following hormones:**

**First:** glucagon.

.....

**Second:** calcitonin.

.....

**9- Give an example for each of the following:**

**First:** A green alga that reproduces sexually by conjugation.

.....

**Second:** A unicellular organism that reproduces by budding.

.....

**The second group: from 10 to 18****10- Choose one of the two questions (a) or (b), then mention the scientific term that indicates it:**

(a) The hormone used to treat diabetes mellitus in humans.

.....

(b) A case that results from a deficiency of growth hormone secretion before puberty.

.....

**11- Choose the odd word in the following words:**

Endocrine gland - adrenal gland - sweat gland - pituitary gland.

**12- Choose the correct answer from the following:**

There is a foramen magnum in the bones of .....

- A- the skull
- B- the pelvis.
- C- the forearm
- D- the shank

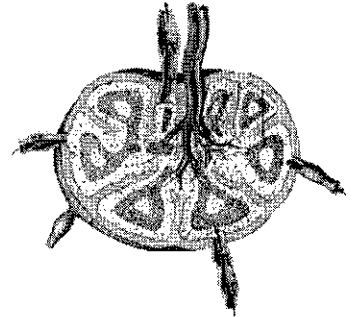
**13- Correct the underlined words.**

Microspores are formed in the anther of a flower by mitosis

**14- Choose from the following the name of the lymphatic:**

organ shown in the opposite diagram.....

- A- bone marrow
- B- lymph node
- C- thymus gland
- D- Peyer's patches



**15- Put (✓) in front of the correct statement and (×) in front of the incorrect one:**

One of the functions of the vertebral column is to protect the spinal cord ( )

**16- Choose one of the two questions (a) or (b), then give one example:**

(a) A pentose sugar get in the structure of DNA.

(b) Hexose sugar does not need insulin to enter cells.

**17- Give an example of each of the following:**

**First:** A green plant that reproduces by spores.

**Second:** An insect that produces its ova by meiosis sometimes and by mitosis at other times

**18- Name the enzyme that performs each of the following functions:**

**First:** Hydrolyses DNA completely

.....

**Second:** Breaking the hydrogen bonds between the nitrogenous bases during DNA replication.

.....

**The third group: from 19 to 27****19- Choose one of the two questions (a) or (b), then mention the scientific term that indicates it:**

(a) A type of white blood cell that suppresses the immune response.

.....

(b) A group of proteins and enzymes that hydrolysis microbes in the blood after their conjugation with antibodies.

.....

**20 - Choose one of the two questions (a) or (b), then explain the type of asexual reproduction:**

(a) honey bees.

.....

(b) bacteria.

.....

**21- Choose one of the two questions (a) or (b), then put a (✓) or (X) mark in front of the phrase:**

(a) Histamine is produced by mast white blood cells. ( )

.....

(b) Interferon is produced by human infected cells with the virus. ( )

.....

**22- Choose the odd word in the following words:**

Testes - prostate gland - fallopian tubes - Cooper's glands.

.....

**23- Choose the correct answer from the following:**

The thymus gland is located in the human body.....

- A- below the stomach                      B- above the heart.  
C - below the lungs                        D- above the skull

**24- Correct the underlined words**

The spermatids change into human sperm at the maturation stage.

.....

**25- Write the names of the bones that form the following parts:**

**First:** The glenoid cavity.

.....

**Second:** The acetabulum cavity.

.....

**26- Write the nitrogenous bases complementary to the following strand of DNA to form the other one.**

3`..... T - C - A - T - A - G - A - .....5`.

..... - - - - - .....

**27- Determine the type of sexual reproduction for the following organisms:**

**First:** Flowering plants.

.....

**Secondly:** Aphids insect

.....

**Fourth group: from 28 to 36**

**28- Choose one of the two questions (a) or (b), then choose the odd word in the following:**

(a) Binary fission - Parthenogenesis - Tissue culture - Surgical sterilization.

.....

(b) The amnion membrane - The scrotum - The chorion membrane -  
The embryonic membranes.

.....

**29- Correct the underlined words**

The structure that represents the first the first bulwark in the resistance in the plant and may be covered with a waxy layer, which is tyloses.

.....

**30- Give the scientific term that indicates the following statement:**

Connective tissue that connects muscles to bones.

.....

**31- Choose the correct answer from the following:**

From the examples of exocrine glands in the human body .....

A- lacrimal gland.

B - thyroid gland.

c- pituitary gland.

d- pancreas



**32- Give the scientific term that indicates the following statement:**

The case that results from the removal of the ovaries during the second month of pregnancy.

.....

**33- Choose the odd word in the following words:**

Myosin - Actin - Gastrin

.....

**34- Choose one of the two questions (a) or (b), then mention the scientific term that indicates it.**

(a) The inner floral whorl of a flower and it consists of one or more carpels.

.....

(b) Seedless fruits are produced naturally without pollination or fertilization.

.....

**35 - Choose from the column (B) what fits to the column (A):**

(A)	(B)
1- Helper T cells (TH) ( )	a- It has a main role in the secondary immune response.
2- Memory cells ( )	b- It recognizes antigens through the major histocompatibility protein MHC. c- secretes substances that cause inflammation and swelling of the infected tissues.

**36- The opposite graph represents DNA replication:**

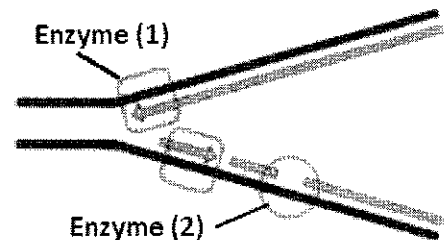
Write the number that indicate of each of the following

First: Ligase enzyme number. ( )

.....

.....

.....



Second: Polymerase enzyme number. ( )

.....

.....

.....

**Fifth group: from 37 to 45****37- Choose one of the two questions (a) or (b), then correct underlined words:**

(a) The hormone that causes acromegaly is cortisone.

.....

(b) The hormone that is secreted from the parathyroid glands is estrogen.

.....

**38- Choose the correct answer from the following:**

Substance that does not pass through the placenta from the mother to the fetus.

- A- amino acids      B- oxygen      C- glucose      D- urea

**39- Correct underlined words**

The substance that secreted by the ear and to kill microbes is called mucus.

.....

**40- Give the scientific term that indicates the following statement:**

The chemical substance that is the only stimulus for muscle fiber contraction

.....

**41- Choose the correct answer from the following:**

The production of some seedless fruits naturally without pollination

or fertilization is called.....

- A- parthenogenesis      B – parthenocarpy.  
C - bacterial transformation      D - fertilization

**42- Put a (√) or (X) mark in front of the following statement:**

Spontaneous mutation occurs as a result of the effects of the environment that surrounds the organism .(      )

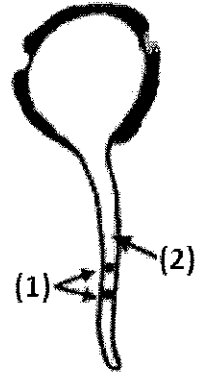
**43- The opposite figure that represents a germinated pollen grain, write the labels (1) and (2).**

(a) Labels No. (1) represents.

.....  
 .....

(b) Labels No. (2) represents.

.....  
 .....



**44- Correct underlined words**

**First:** Renucleation is a special type of reproduction that some organisms carry out without fertilization of the male gamete.

**Secondly:** The structure that results from the germination of fern spores on moist soil is the sporophyte.

**45- Name the cells that perform the following functions:**

**First:** The structure that protects the brain.

**Second:** The structure that secretes an alkaline fluid containing fructose to nourish the sperms.

( إنتهت الأسئلة )

\*\*\* دڤولہ \*\*\*

.....

\*\*\*سيرة\*\*\*

\*\*\* مسودة \*\*\*

\*\*\* مسودة \*\*\*

