

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



كلية العلوم

القسم : علم الحياة

السنة : الثالثة

اسئلة دوراس محلولة

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كلية العلوم (فيزياء ، كيمياء ، رياضيات ، علم الحياة)

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Tartous University ,
Faculty of Science ,
Department of Math,
Second Year English Language Exam ,
Second Term 2024-2025,
Thursday , August 20 ,2025 / 9-11 A.M.

Choose the correct answer , A ,B or C of the following items .

- 1-A number is a mathematical which is used in counting , calculating and quantifying . A- material B- tool C-substance
- 2-Decimal number system consists of 10 digits ,from A- 1 to 10 B-1 to 9 C- 0 to 9
- 3-A Binary Number is made up of only and 1s . A-2 s B- 4 s C- 0 s
- 4- Numbers from 0 to 9 are known as numerals . A- Arabic B- Indian C-English
- 5-The number of digits involved in a number system is called the.....of that number system . A- origin B- beginning C- base
- 6-A number system formed by only two digits 0,1 is called system . A-decimal B- binary C- fractional
- 7-Counting numbers are also called numbers . A- whole B- original C- natural
- 8-Any number can be formed with the help ofdigits. A- two B- nine C-ten
- 9-If a number system involves 8 digits , it is called number system .
A- octal B- heptad C- hexagonal
- 10-Binary system is very important because it is used in types of computers .
A- some B- a few C-all
- 11-Computer stores information in the form of A- 10 B- 9 C- 0 and 1
- 12-The process $(1 + 2 = 3)$ is called A- adhesion B-addition C- Adjustment
- 13-The process $(1 - 2 = -1)$ is called A-fraction B- production C-subtraction
- 14- signifies repeated addition . A- Succession B- Multiplication C- Multiform
- 15-..... is a reversal of multiplication . A- Division B- Repetition C-Reversion
- 16-A given number called divisor is contained in another given number called
A-dividing B- divided C- dividend
- 17-Set of natural number is denoted by A- M B- N C- U
- 18- There are no numbers with in natural numbers .
A-decimals B-constants C-infinities
- 19-Natural numbers are the set of..... integers . A- negative B- rooted C- positive
- 20-The sum of two natural numbers is always a number .
A-compound B- natural C- complex
- 21-The of two natural numbers is also natural number . A-process B-theory
C- product

- 22-When a natural number is subtracted from another natural number , the result is a natural number . A-always B-not always C-certainly
- 23-Addition of whole numbers gives a whole number . A- not always B-always C-sometimes
- 24-Whole numbers are under addition . A-closed B-open C-free
- 25-Whole number is denoted by A- N B- H C- W
- 26-Whole numbers are under subtraction . A-closed B-not closed C-open
- 27-Multiplication of whole numbers..... gives a whole number . A- sometimes B- not always C-always
- 28-Set of integers is denoted by : A- M B- Y C- Z
- 29-Positive integers are the set of natural numbers' including A-one B- zero C- nine
- 30-They do not have any fractional or part . A- fractile B- fragment C-decimal
- 31-To distinguish between the positive and negative of 0 , opposite signs are used . A- lines B- sides C- sheets
- 32-Zero is the only whole number which is not a number . A- complex B-compound C- natural
- 33-Zero is by 0 . A- composed B- represented C- formed
- 34-Zero is the only between natural and whole numbers . A-coincidence B- similarity C-difference
- 35-Zero to any number , gives the number itself . A- gone B- added C-taken
- 36-Zero is the additive for all numbers . A-function B- element C- identity
- 37-Zero multiplied by any number, gives zero . A- sometimes B-not always C- always
- 38-Any number divided by zero is not A- defined B-definite C- decreased
- 39- Natural numbers can further be sub-divided into types . A-similar B- different C-opposite
- 40-..... divided by any number (except zero) , gives zero . A- One B- Null C- Zero
- 41-Binary system is not used in everyday apparently . A- life B- process C-research
- 42- The number of multiplicands considered for addition is A-multiplication B- multiplicative C- multiplier
- 43-An number is any number that can be divided by 2 . A- odd B-octal C-even
- 44-A number is divisible by 2 if its digit is 0, 2, 4, 6 etc . A- first B- last C-second
- 45-An number is any number that cannot be divided by 2 . A- odd B- even C-absolute
- 46-A Prime Number can be... evenly , only by 1 or itself. A-added B-subtracted C-divided
- 47- If we list the... of 28 , we have 1,2,4,7,14 and 28. A-processes B-factors C-digits
- 48-If we list the factor of 29, we only have 1 and A- 28 B-30 C- 29
- 49-Prime numbers have exactly factors . A-six B- two C-five
- 50-When a number has more than two factors , it is called number . A-composite B- ordinal C- cardinal

Good Luck

Instructor
M.S.R.



The first question: Answer two of the following three questions (No more than four lines) /20 marks/ اختياري

1- Classify the genus homo. /10 marks/

the family hominidae, /2 درجة/

the order primates, /2 درجة/

the class mammalia, /2 درجة/

the phylum chordata, /2 درجة/

the kingdom animalia, /2 درجة/

the domain eukarya.

2- what are the organelles within a eukaryotic cell? List them and talk about one of them.

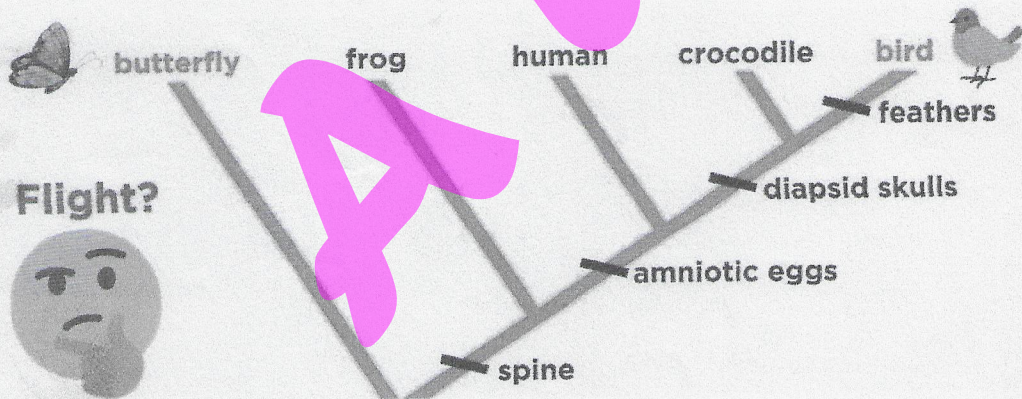
/10 marks/

Nucleus – Mitochondria - Endoplasmic Reticulum (ER) - Golgi Apparatus

Lysosomes – Ribosomes - Chloroplasts (in plant cells) – Vacuoles -Cytoskeleton.

/ يكفي تعداد خمس متعضيات كل واحدة درجة ، ولشرح واحدة منهم ٥ درجات/

3- Please build a cladogram for these five organisms: butterflies, frogs, humans, crocodiles, and birds. /10 marks/



/ درجة لترتيب كل كائن حي ضمن المخطط الفرعي التصنيفي ودرجة لكل صفة مضافة + درجة لشكل المخطط/

* يُقبل كتابة المخطط الفرعي بشكل جدول

أو كتابة كسناد

ملاحظة: الجدول يصل على كامل العلامة

البقار! زالم نيطر أ الحيوانات المذكورة
بالسؤال تحسب ثلاث درجات / سبع ٧ /

The second question: What is the scientific term that matches the following definitions? / 20 marks/ ٤ درجة لكل مصطلح

- 1- DNA.
- 2- Centrosome.
- 3- The tree of life.
- 4- Cladograms.
- 5- The plasma membrane.

The third question: Choose the most accurate answer among the four suggested options / 20 marks/ ٤ درجة لكل مصطلح

- 1- b. Prokaryotic Cell wall.
- 2- c. Mitochondria.
- 3- a. Gram-positive bacteria.
- 4- a. Archaea
- 5- d. The cytoplasm.

The fourth question: Determine if the following statements are true or false / 20 marks/ / درجتين لكل كلمة صح او خطأ في موقعها الصحيح

- | | | |
|------------|-----------|------------|
| 1. True. | 2. False. | 3. True. |
| 4. False . | 5.False. | 6. False. |
| 7. True. | 8. True. | 9. True . |
| | | 10. False. |

The fifth question: Choose a scientific topic discussed in the course. Write down the question and its answer. (No more than five lines) / 20 marks/

/ ٤ درجات لطرح سؤال منطقي و٦ درجة للإجابة عليه /

Dr. Maissoun Ziadeh

The first question: Answer two of the following three questions (No more than four lines)

/20 marks/

- 1- Talk about the Stanley Miller and Harold Urey experiment.
- 2- Talk about the Endosymbiotic Theory.
- 3- Classify the genus homo.

The second question: What is the scientific term that matches the following definitions?

/ 20 marks/

1.is the molecule of life.
2. complex macromolecules made of RNA and proteins.
3. consists of a series of stacks, and there is a cis face, usually facing the ER, where vesicles arrive, and a trans face, where vesicles leave.
4. has many branches, where different species evolved from a common ancestor.
5.are moments during or in between phases throughout the cell cycle.

The third question: Choose the most accurate answer among the four suggested options

/ 20 marks/

1. Rigid structure, made of peptidoglycan, creates a mesh-like layer around the cell

- | | |
|---------------------------------|--|
| a. Eukaryotic Cell wall. | b. Prokaryotic Cell wall. |
| c. Cell wall for all organisms. | d. All previous answers (a,b,c) are false. |

2- It is a sac containing an environment that is much more acidic than the rest of the cell, and it holds enzymes that digest large molecules via hydrolysis.

- | | |
|------------------|-------------------------|
| a. The lysosome. | b. The Golgi apparatus. |
| c. Mitochondria. | d. The smooth ER. |

3. It is a kingdom within the domain eukarya

- | | |
|--------------|--------------|
| a. Reptilia. | b. Amphibia. |
| c. Mammalia. | d. Plantae. |

4. Each animal listed on a cladogram is more closely related to the animal

- a. on its right.
- b. on its left.
- c. Above it.
- d. All previous answers (a,b,c) are false.

5. When the genome gets copied or synthesis

- a. The G1 phase.
- b. The G2 phase.
- c. The interphase.
- d. The S phase.

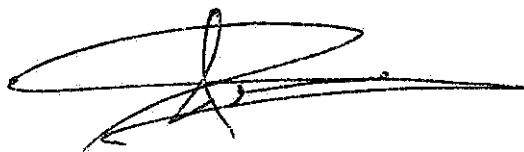
The fourth question: Determine if the following statements are true or false / 20 marks/

1. there's a hypothesis that proposes that the first organic compounds were transported to the earth from space, This is called the panspermia hypothesis.
2. Gram-positive bacteria have cell walls with lots of peptidoglycan, so they do not retain the stain very well, so they show up with more of a pink color.
3. The rough endoplasmic reticulum's surface is studded with ribosomes, giving it a rough appearance.
4. Centrosome can be found only in animal cells.
5. Crocodiles, snakes and lizards are reptiles.
6. The position of animals which listed on a certain cladogram refer to their evolution.
7. Humans have 46 chromosomes in all somatic cells.
8. Cancer involves cells that are dividing out of control, which leads to the development of a tumor.
9. Prokaryotic cells have their genetic information inside a nucleus.
10. Mitochondria can digest damaged organelles.

The fifth question: Choose a scientific topic discussed in the course. Write down the question and its answer. (No more than five lines) / 20 marks/

Wishing you the best of luck 12/2/2025

Lecturer: Dr. Maissoun Ziadeh



The first question: Answer two of the following three questions (No more than four lines) /20 marks/ اختياري

1- Stanley Miller and Harold Urey experiment: /10 marks/ 2.5/ درجة لكل جملة/

- a- They set up a system that mimics conditions early in earth's history.
- b- they placed water, ammonia, methane, and hydrogen.
- c- it was exposed to heat as well as an electric current, (lightning).
- d- After about a week, they found a number of different amino acids, which are the building blocks of proteins.

2- Endosymbiotic Theory: /10 marks/ 2.5/ درجة لكل جملة/

- a- Some species of bacteria acquired unique functions, like the ability to perform photosynthesis, or breathe oxygen.
- b- larger host cells enveloped some of them.
- c- instead of digesting them, a mutual dependency arose.
- d- The smaller cell received protection, while the larger one take energy.

3- We humans belong to the genus homo. /10 marks/

- the family hominidae, /2 درجة/
- the order primates, /2 درجة/
- the class mammalia, /2 درجة/
- the phylum chordata, /2 درجة/
- the kingdom animalia, /2 درجة/
- the domain eukarya. /2 درجة/

The second question: What is the scientific term that matches the following definitions? / 20 marks/ 4 درجة لكل مصطلح

- 1- DNA.
- 2- Ribosomes.

The first question: Answer two of the following three questions (No more than four lines) /20 marks/ اختياري

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The second question: What is the scientific term that matches the following definitions? / 20 marks/ 4 درجة لكل مصطلح

1- DNA.

2- Ribosomes.

- 3- The Golgi apparatus.
- 4- The tree of life.
- 5- The Checkpoints.

The third question: Choose the most accurate answer among the four suggested options / 20 marks/ 4 درجة لكل مصطلح /

- 1- b. Prokaryotic Cell wall.
- 2- a. The lysosome.
- 3- d. Plantae.
- 4- a. on its right.
- 5- d. The S phase.

The fourth question: Determine if the following statements are true or false / 20 marks/ / درجتين لكل كلمة صح او خطأ في موقعها الصحيح /

- | | | | |
|----------|-----------|-----------|------------|
| 1. True. | 2. False. | 3. True. | |
| 4. True. | 5. True. | 6. False. | |
| 7. True. | 8. True. | 9. False. | 10. False. |

The fifth question: Choose a scientific topic discussed in the course. Write down the question and its answer. (No more than five lines) / 20 marks/

/ 4 درجات لطرح سؤال منطقي و16 درجة للإجابة عليه /

Dr. Maissoun Ziadeh