

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

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كلية العلوم

القسم : علم الحيوانة

السنة : الثالثة

السلسلة دروس محوسبة

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مكتبة A to Z

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

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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.

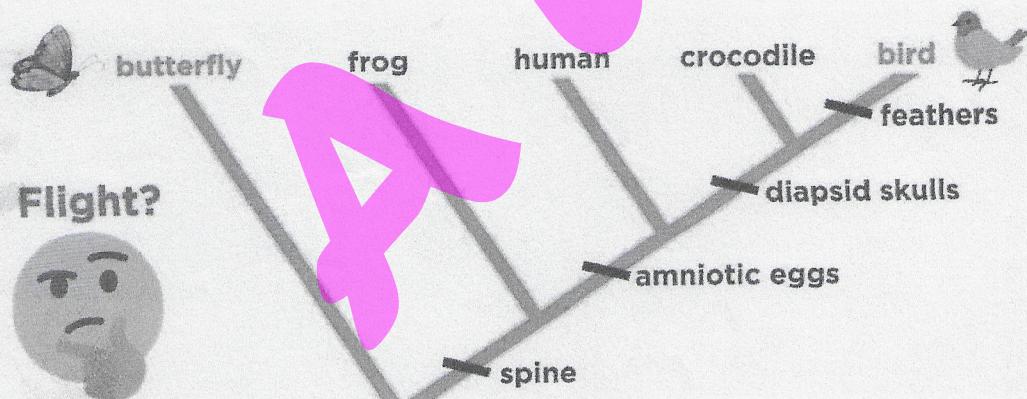
2- what are the organelles within a eukaryotic cell? List them and talk about one of them. /10 marks/

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

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

/ يكفي تعداد خمس م特عيّنات 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 التفرعي التصنيفي ودرجة لكل صفة مضافة + درجة لشكل المخطط/

*. قبل كتابة المخطط التفرعي سبّل جدول

أو كتابة كعادر

ملاحظة: الجدول ي العمل على كاعل العلامات
القدر اذا لم تغير الحيوانات المذكورة
بالسؤال فيغير الملامس درجات / يضعها /

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

- 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 / ٤ درجة لكل مصطلح / 20 marks /

- 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 و ٦ 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.

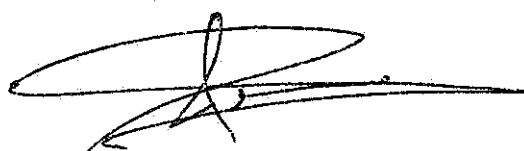
The fourth question: Determine if the following statements are true or false / 20 marks/

- 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. Maisoun 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/

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/

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

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.
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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 و 16 درجة للإجابة عليه /

Dr. Maissoun Ziadeh