



لاب بيو

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اللجان الطلابية-كلية الزراعة
الجامعة الأردنية

تابع اللجان
على منصاتها



اللجان الطلابية تتمنى لكم دراسة موفقة

1- The shape of these bacteria :



Spirilli (rod)

2- His figure shows the proper way how to keep your microscope inside its cabinet : T / F



اللبجان الطلايية-كلية ال

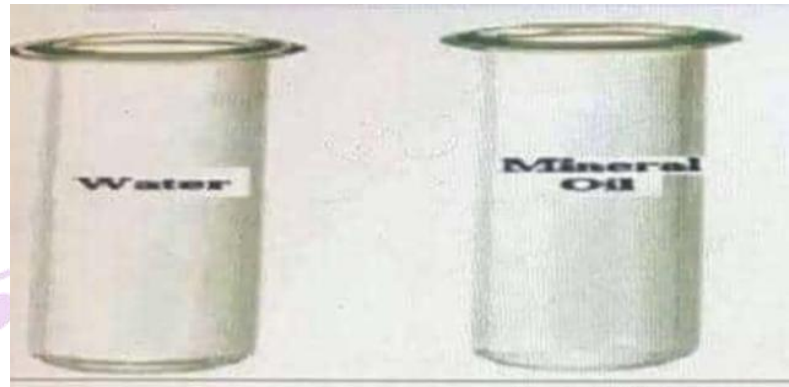
3- In which of these test tubes do you expect corn oil to dissolve?

a- Water

b- mineral oil

c- None of them

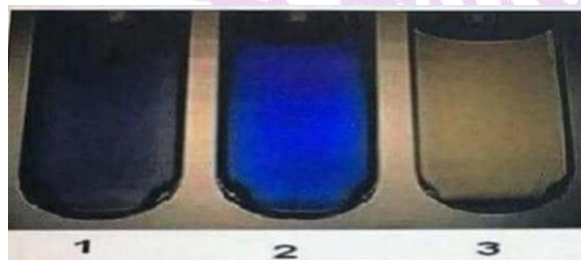
d- in both



4- The figure below represents filamentous cyanobacterias



5- Which test tube contains the negative test for detecting DNA : tube 3



6- The part of microscope pointed at belongs to :

Imaging system

luminating system

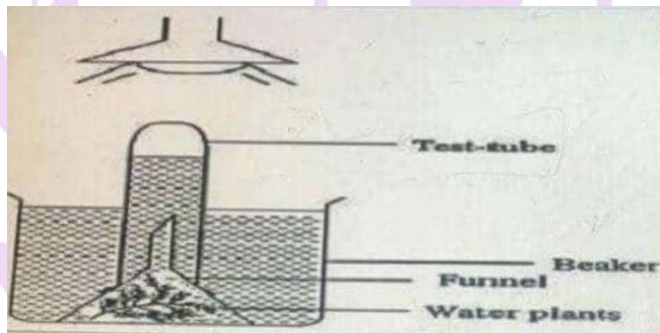
Mechanical system

Electronic System

B and c



7- What is the gas accumulating in the test tube? **O₂**



8- According to this result , which substance was able to cross the dialysis membrane :



9- The name of this tool is

Test tube brush

test tube holder

Spatula

Scissors



10- The lens pointed at is :

Ocular lens

Objective lens

Oil lens

Condenser lens



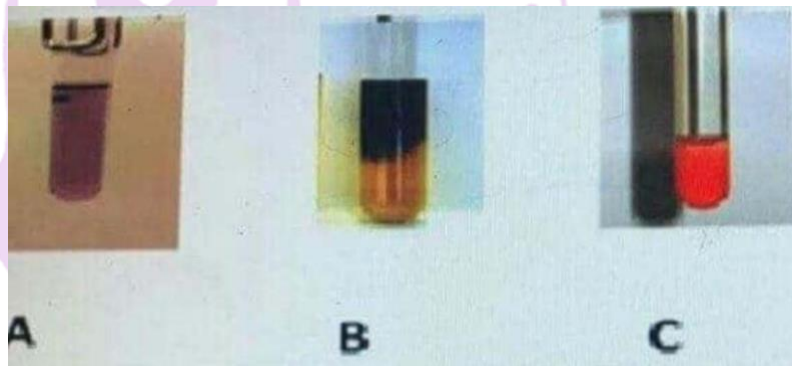
11- The total magnification of this microscope using the lens pointed at is : **40x**



12- In the Biuret test the copper ions react specifically with ----- to produce this violet color :



13 - Which of these tubes show a positive Benedict test? **C**

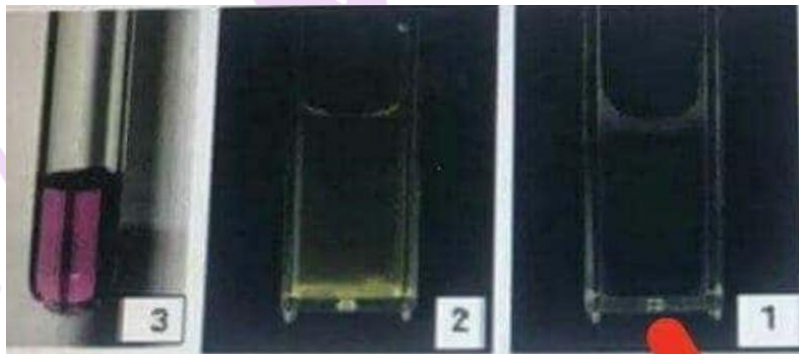


14- The temperature that completely denatured Rennin was : **100 c**



15- Ninhydrin reagent was added to the solution in these tubes then boiled, the following colors appears, which test tube(s) contains free amino groups?

Test tube 3



16- The name of this tool is :

Scissors



17 - The name of this tool is :

forceps



18- The function of the stage clips is:

- a. Hold the stage in place
- b. Change the magnification of the objective lens
- c. Move the stage up and down
- d. Hold the slide in place

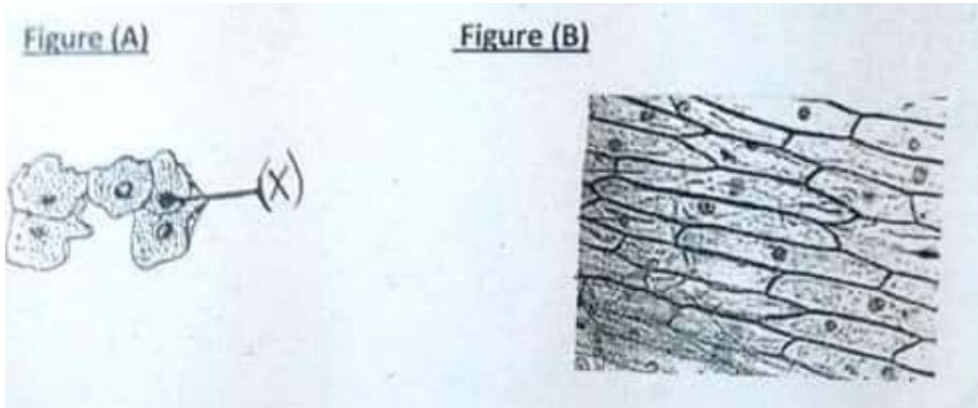
19- which of the following is part of the imaging system of the microscope?

- a. arm
- b. ocular lens
- c. condenser lens
- d. light source

20- If the ocular lens is 10X and the objective is set at 40X, what is the total magnification of the microscope?

- a. 10x
- b. 40X
- c. 100X
- d. 400X

21 –



1. The cells in the figures (A) & (B) are all prokaryotic. True or False? False
2. Give one difference between the cells in figure (A) and figure B :
3. The structure pointed at (X) is found in all kinds of cells. True or False? false
4. The cells in figure (B) were obtained from :

22- Q8-Sudan red dye used to detect:

- a) water
- b) lipid**
- c) protein
- d) starch

22- The common name of sucrose:

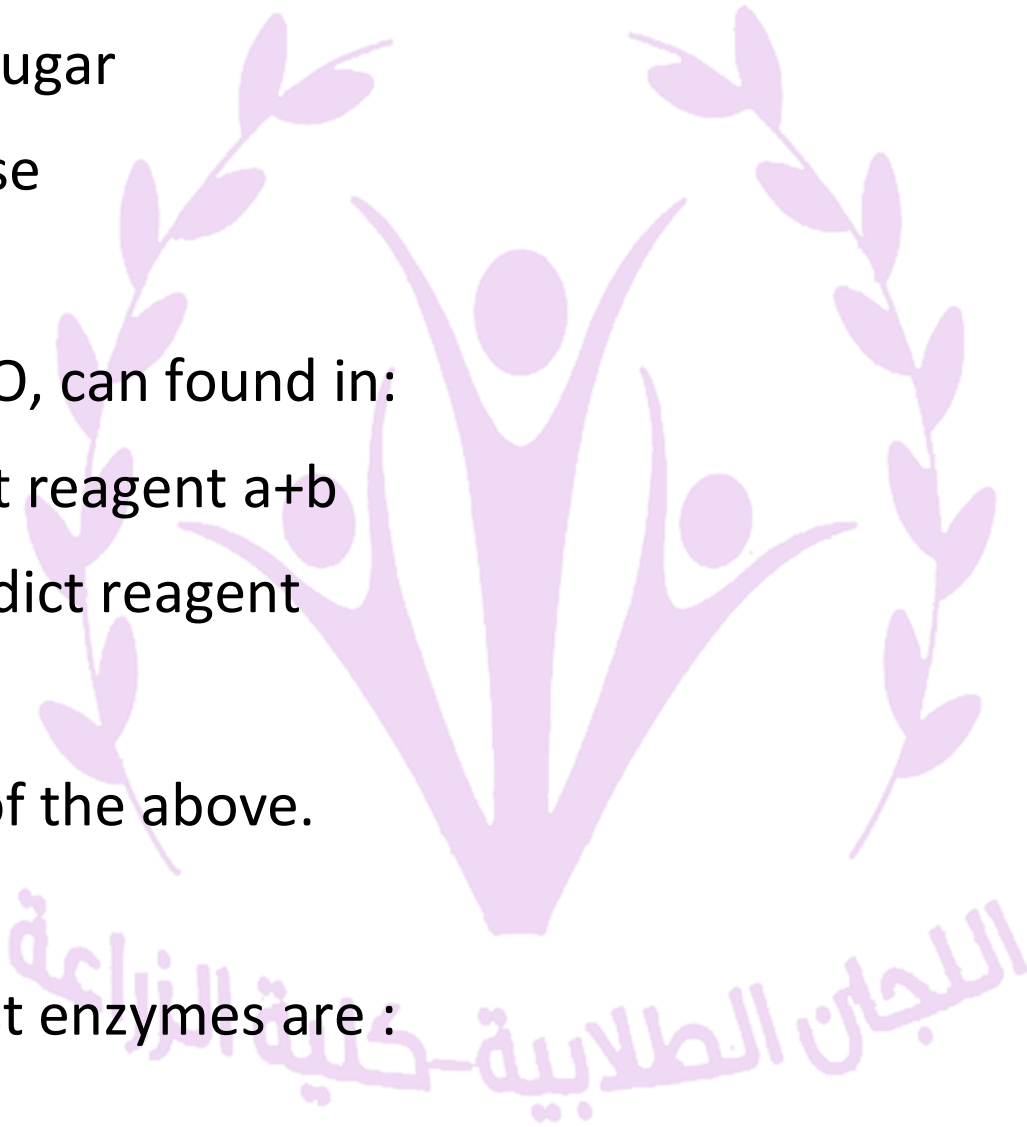
- a) table sugar
- b) malt sugar
- c) milk sugar
- d) lactose

23- CuSO_4 , can found in:

- a) biuret reagent a+b
- b) benedict reagent
- c) a + b
- d) non of the above.

24- Most enzymes are :

- a. Lipids
- b. carbohydrates
- c. proteins
- d. phosphates



25- The enzyme found in potato is:

a. Catechol oxidase

b. Rennin

c. Catechol

d. Casein

26- The protein found in milk is :

a. Catechol oxidase

b. Rennin

c. Catechol

d. Casein

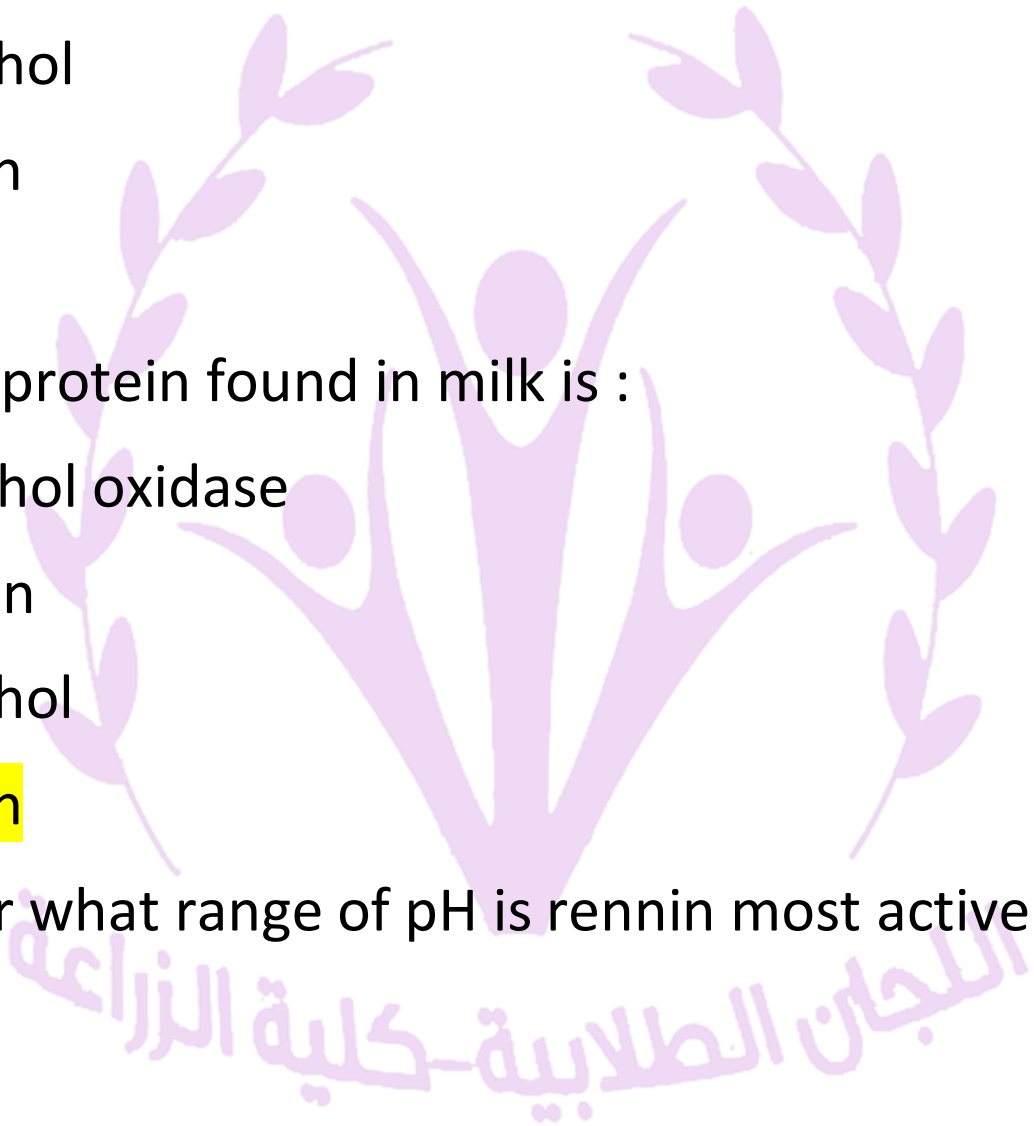
27- Over what range of pH is rennin most active?

a. 2-3

b. 5-6

c. 7

d. 7-8



28 -At high temperatures (e.g. 100 °C), enzymes undergo:

a. Denaturation

b. Inactive state

c. Inhibition

d. Need cofactors

29-

Cells with intercellular spaces ... D

Tissue in plant transports of dissolved organic materials throughout the plant... F

Forms the protective outer covering of the plant body in young and herbaceous plant... C

Female reproductive part of a flower... L

Undifferentiated cells ... I

Formed by division of cells of the pericycle... B

Summer wood ... H

2. The figure to the right is an example of a(n).....
 A. Monocot stem
 (B) Dicot stem
 C. Monocot root
 D. Dicot root

3. Which of the following tissues is dead at maturity?

A. Parenchyma (B) Sclerenchyma C. Collenchyma D. Epidermis

1- What takes place during the S phase?

- a) DNA is replicated. b) Nuclear division occurs. c) Meiosis. d) Mitosis.

2- A cell with a diploid number of 24 undergoes meiosis, how many chromosomes are in each daughter cell?

- a) 6 b) 12 c) 24 d) 48

3- In Mitosis if the parent cells has 40 chromosomes, then how many will the daughter cells have?

- a) 40 b) 10 c) 20 d) 18

4- Which row in the following chart indicates the correct process for each event indicated?

- a) row 1 b) row 2
c) row 3 d) row 4

Row	Formation of Egg	Formation of Sperm	Growth of Embryo
(1)	mitosis	mitosis	meiosis
(2)	mitosis	meiosis	mitosis
(3)	meiosis	mitosis	meiosis
(4)	meiosis	meiosis	mitosis

5- Which of the following best compares the processes of mitosis and meiosis?

- a) Mitosis involves one division cycle and results in diploid daughter cells, while meiosis consists of two division cycles and results in haploid gametes. ✓
- b) Mitosis involves one division cycle and results in haploid gametes, while meiosis consists of two division cycles and results in diploid daughter cells. ✗
- c) Mitosis involves two division cycles and results in diploid daughter cells, while meiosis consists of one division cycle and results in haploid gametes. ✗
- d) Mitosis involves two division cycles and results in haploid gametes, while meiosis consists of one division cycle and results in diploid daughter cells.

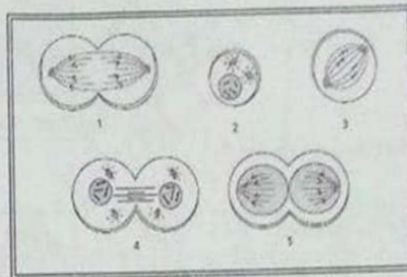
6- In which stage do the chromosomes line up in the center of the cell, spindle fibers attached to the centromeres?

- a) Interphase. b) Cytokinesis. c) Telophase. d) Metaphase.



7- Put the following stages in the cell cycle in order.

- a) 5,3,1,2,4.
b) 3,1,4,2,5.
c) 4,1,2,5,3.
d) 2,3,1,5,4.



8- Somatic cells reproduced by _____, while sex cells produced by _____.

- a) Meiosis; mitosis b) Mitosis; mitosis c) Mitosis; meiosis d) Meiosis; meiosis

9- In Telophase, the chromosomes are located _____ and the _____ reappear.

- a) In the center/ribosome. b) Outside of the cell/ cytoplasm. c) At their poles/nuclear envelopes.

10- Daughter cells produced in meiosis are identical.

- a) True. b) False.