

University of Al-Qadisyiah

College of Biotechnology

Dept. of Med. and Agri. Biotechnology



Examination: Theo. Analytical chemistry

Time: Two hours

Stage: 1st

Final semester examination of first semester 2017-2018

Note: Answer only four questions (10 mark for each question).

Q1/ A// Explain how to use the Analytical chemistry in:

1- Diagnosing disease.

2- Controlling quality.

B// Calculate the grams of the following compounds:

1- (2 mol) from CuSO_4

2-(1/2 mol) from NaCl

Q2/ A// What is the main subjects of Analytical chemistry, explain in detail.

B// Calculate the equivalent weight of the following compounds:

1- H_3PO_4

2- Na_2CO_3

Q3/ Calculate the volume (in ml) of (0.297 N) ZnSO_4 solution contain (2.4 gm) from this salt.

Q4/ Prepare (20 %) of AgCl salt in (100 ml) of water.

Q5/ Prepare (10 ppm) of ion (Br^-) from KBr salt in (1000 ml).

At. wt :- $\text{Cu} = 63.5$, $\text{S} = 32$, $\text{O} = 16$, $\text{Na} = 23$, $\text{Cl} = 35.5$, $\text{H} = 1$, $\text{P} = 30.9$, $\text{C} = 12$, $\text{Zn} = 65$,
 $\text{Ag} = 107.8$, $\text{K} = 39$, $\text{Br} = 79.9$

Best wishes

Department head

Dr. Nazar Abdulameer

Dr. Muhannad M. Sahib

Examiner

As.t. Nadia B. Hussaen

University of Al-Qadisiya
Faculty of Biotechnology
Dept. of Agricultural Biotechnology



Examination: Cytology / *etc*
Time: Two hours
Stage: 1 years
Date :- / / 2018

Final semester examination of first semester 2017-2018

Note: Answer only (4) question

Q1/ *when* are sterilization tools *for the following items*

- 1- betri dish
- 2- LOOP
- 3- Flaske
- 4-slide
- 5-culture media

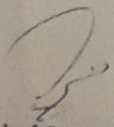
Q2/ what are the important incubater ?

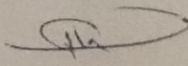
Q3/ Define

Hood , Oven

Q4/ what is Prokaryotic cell ?

Q5/ Enumerate the type of plastids ?


Head of Department


Examiner

University of Al-Qadisiyha
Faculty of Biotechnology
Dept. of Agricultural Biotechnology



Examination: *cytology*

Time: Two hours

Stage: *1* years

Date: *23/1/* 2018

Final semester examination of first semester 2017-2018

Note : Answer only (4) questions

Q1/ compare between prokaryotic and Eukaryotic cell ?

Q2/ Enumerate the factor depend on permeability of the cell?

Q3/ Define Cytology ?

Q4/ Draw with pointer animal cell?

Q5/ what is the Lysozyme function?

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Head of Department
Dr. Muhannad.M.Sahib

A handwritten signature in black ink, appearing to be 'H. H.'.

Examiner



Final semester examination of first semester ٢٠١٧-٢٠١٨

ملاحظة: الاجابة لخمس اسئلة فقط لكل سوال ٨ درجات .

- س١/ أ/ عرف كل مماياتي ولاربع فقط ؟ (٤ درجة)
- (الحاسوب الالكتروني, زمن الاستجابة , Administrator, Bit Torrent, Hacker)
- ب/ وضح مفهوم الكيان البرمجي وعدد انواعه والمهام التي يقوم بها ؟ (٤ درجة)
- س٢/ أ/ عدد اجيال الحاسوب ثم وضح كل واحدة منها ؟ (٤ درجة)
- ب/ صنف الحواسيب حسب الغرض من الاستخدام ؟ (٤ درجة)
- س٣/ اكتب الاسم العلمي الكامل باللغتين العربية والانكليزية لثمانية فقط من المختصرات الاتية ؟ (٨ درجة)
- (LCD / CRT / HDMI / CTRL / POST / BIOS / LSIC / ISDN / CMOS / CAT))
- س٤/ أ/ عرف المنافذ ؟ ثم اذكر انواعها واستخداماتها ؟ (٤ درجة)
- ب / هنالك عدة انواع للطابعات اذكرها واطرح كل واحدة منها ؟ (٤ درجة)
- س٥/ أ/ ماذا نعني بخصوصية الحاسوب؟ وماهي اهم المشاكل التي تكون محور خصوصية البيانات ؟ (٤ درجة)
- ب/ اذكر العوامل التي يجب مراعاتها عند شراء حاسوب مع توضيحها بالتفصيل ؟ (٤ درجة)
- س٦/ أ/ وضح اشكال التجاوزات في العالم الرقمي ؟ (٤ درجة)
- ب/ عدد اقسام لوحة المفاتيح ثم وضح استخداماتها ؟ (٤ درجة)

Agr. Head of Department
Dr. Muhannad.M.Sahib

med. Head of Department
Dr.Nazar A.A.Hamzah

Examiner
saif khalid musluh

University of Al-Qadisyiah

College of Biotechnology

Dept. of Agriculture Biotechnology

Date: / /2018



Examination: Plant physiology

Time: two

Stage: first year

Final semester examination of first semester 2007-2018

NOTE :- Answer only four question .

Q 1 \ Explain what are the three ways which used to increase yields in the plant .

(10 M)

Q 2 \ What are the deficiency signs potassium element in the growth of plant

(10 M)

Q 3 \ Explain the general environmental factors that effect in the rate Of transpiration in the plant body .

(10 M)

Q 4 \ A - Explain what are the evidence for the role of auxin in Adventitious root formation .just draw it .

(5 M)

B - Enumerate the type of growing plant with out seeds .

(5 M)

Q 5 \ A - Explain what are the five groups of plant hormones .

(5 M)

B - What are the calvin cycle explain it .

(5 M)

A handwritten signature in black ink, appearing to be 'M. Sahib'.

Head of Department

Dr . Muhannad.M.Sahib

A handwritten signature in black ink, appearing to be 'Entasser H. Mehdy'.

Examiner

Dr .Entasser . H . Mehdy



Final semester examination of first semester 2017-2018

NOTE. Answer only (Five) questions(20 marks for each question)

Q1:A-Define the Following Scientific Terms: (12marks)

Evolution, Peptide bond ,Population ,Prokaryotes , Omnivore , Micro elements .

B-Mention the basic principles of biology . (8marks)

Q2:A- Explain in Briefly the chemical compounds in the cell . (15marks)

(B-Describe ecological levels from large to small level ,serially. (5marks)

Q3:A- Discuss the symbiotic relationship. (10marks)

B-Enumerate the characteristics of a nutritious foods. (10marks)

Q4:A-list organelles found in the cells. (5marks)

B-Enumerate the function(s) of each of the following: (15marks)

- 1-Proteins
- 2-Scientific method
- 3-Mitochondria
- 4- Fats
- 5-Ribosomes

Q5:A-What are the characteristics of living things. (10marks).

B-Describe what happen when an individual at under nutrition state? (10marks)

Q6:Compete the followings:- (20marks)

- 1-All living things are made up of
- 2-The main types of lipids are.....,.....,..... and
- 3-The environment is made up of two main factors and
- 4-A good hypothesis must be.....and.....
- 5-.....An interaction that one species benefits and the other is harmed but not killed.
- 6-Autotrophic means.....and divided into two types..... and
- 7-Minerals needed for.....,.....,..... and
- 8-.....Is the major storage of carbohydrates in plants while..... ..Is the major storage of carbohydrates in animals.
- 9-.....Help in nutrition by break down food and also called suicidal bags.

(GOODLUCK)

Lecturer

Prof. Karim Nasir Taher

Head of Agri. Dept.

Head of Med.Dept.

University of Al-Qadisiya

College of Biotechnology



Subject: Physics

Data: - - 2018

Note: Answer only four questions (each question 10 mark).

Q1/ a- Define the **Linear Energy Transfer**. Then, explain what the mean of Ionization Radiation.

b- Describe the Gonadal dose.

Q2/ Explain of:

a- Gamma rays

b- X-rays.

After that, what the different between them?

Q3/ a- Positron interaction with matter, explain that and what the different between the interaction of Positron and Electron with matter?

b- Prove the $T_{\max} = \frac{h\nu}{1 + \frac{m_0 c^2}{2h\nu}}$

Q4/ What is mean of Free radicals. Then explain the development of radiobiological damage.

Q5/ What is the mean of Laser. Then explain the advantages of Laser in Agriculture field.

Dr. Murtadha Shakir

8-1-2018

With best wishes

Dr. Nazar Abdelaseen Dr. Muhammad

University of Al-Qadisiya
College of Biotechnology



Subject: Physics (experimental)

Data: - - 2018

Note: Each question 5 mark.

Q1/ Write and define the equation of following:

a- The mass attenuation coefficient

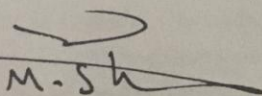
b- the standard deviation

Q2/ The average of activity of cobalt source were (300 counts) during (5 minutes), then at the same time we measured the background radiation was (5 counts). Calculate the value of radioactivity.

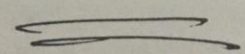
Q3/ Calculate the breakdown voltage if the operating voltage was (420 volt) and the threshold of the plateau was (240 volt).

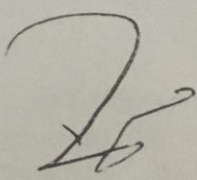
Q4/ Give five parameters to calculate the efficiency of Geiger Muller counter of a beta count.

With best wishes


Dr. Murtadha Shakir

8-1-2018


Dr. Nazem Abdulameer


Dr. Muhammad

University of Al-Qadisyiah

College of Biotechnology

Dept. of Med and Agr Biotechnology



Examination: English

Time: Two hours

Stage: Frist

Final semester examination of first semester 2017-2018

Note: 1.5 point for each correct answer. Except the fourth question it's a special case.

Q1: Complete the sentences with the correct form of a verb from the box.

Drink, go, work, play, speak, leave, live, eat, have

- (1) Jane has lunch at a restaurant near her office. Go (2) Giorgio and Maria go out in the evenings. (3) Bruce goes home at 7.30 in the morning. (4) Sharon and Richard often eat a pizza at home in the evening. (5) I go to work by bus. (6) You never drink wine. (7) He lives in a small house in Oxford. (8) Clare goes work at 6.30 in the evening. (9) You speaks French. (10) They play the piano.

Q2: Write questions. Use these words (How, What, Who, Does, Do, When, Where) Ignore one.

- (1) What time do you go to bed? (2) ' Who is she?' 'She's Jo's sister.' (3) How old are you? (4) Does he have a good job? (5) Where does Luciano work? (6) Who's your job? (7) Do you have a dog? (8) When do you get up? (9) Where time is it? (10) What do you do in the evening? (11) How do you spell it?

Q3: Answer A or B.

A: Complete the sentences. Use him, her, it, them, and us. Ignore one.

- (1) I don't eat dinner at seven o'clock. I eat it at 6.30. (2) My brother, Barry, is a doctor This is a photo of him. (3) Our son Paul lives in London. He visits us at the weekend. (4) 'Do you like apples?' 'No, I hate them.' (5) Maria likes Italian food. She cooks it at home. (6) My sister goes to work early. I never see her in the morning.

B: Circle the correct word. Ignore one.

- (1) Do you like his / her? (2) This is a photo of they / them. (3) John likes you / your very much. (4) Peter sometimes writes we / us an email. (5) Joanna lives near me / my. (6) Andrew sees they / them at work

Q4:A: Read the postcard and correct the sentences

Dear Andrea, I'm in London. I'm on holiday with my friend Juan. London is a very beautiful city and the buildings are very old. London is very expensive but we like it. Our hotel is small and cheap but the breakfast is very good! The Italian and Indian food is fantastic and it's cheap, too. The weather is very cold but it's hot in the museums and galleries! See you soon Love, Piero.

- (1) London is very cheap. (2) The buildings are new. (3) The hotel is expensive. (4) The hotel is big. (5) The Italian food is expensive. (6) The museums are cold.

B: Write about obesity.

Best wishes

Head Of Department

Examiner

م.د. خالد حسن عبد الحميد

University of Al-Qadisyiah

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