

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 : الكيمياء

السنة : الثانية

اسئلة ودراس محلولة

خصصية ٢

A 2 Z LIBRARY

مكتبة A to Z : Facebook Group

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

يمكنكم طلب المحاضرات برسالة نصية (SMS) أو عبر (What's app) على الرقم 0931497960 TEL:

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

I. Answer the following questions :**[45 marks]****1. Kinds of labs: the film laboratory (dark room) \\ 12 marks**

The computer lab \ the medical lab \ the public health lab

2. The instructions: \\ 16 marks\\ 2. اية أربعة تعليمات صحيحة

1. Eating, drinking and smoking are strictly prohibited in the lab.
2. No unauthorized experiments are to be performed.
3. Never taste anything, never directly smell the source of any vapour or gas.
4. Always wash your hands before leaving lab.
5. Learn where the safety and first-aid equipment is located.
6. Notify the instructor immediately in case of an accident.

3. \\17 marks\\ أي طريقة من هذه الطرق الثلاث صحيحة

chemical fire # 1 : Potassium permanganate , glycerin, water . Add a few drops of glycerin to a few crystals of Potassium permanganate. Accelerate the reaction by adding a couple of drops of water.

chemical fire # 2 : Sodium chlorate, sugar, sulfuric acid. Mix a small amount of sodium chlorate and sugar. Initiate the reaction by adding a few drops of sulfuric acid.

chemical fire # 3 : Ammonium nitrate, finely ground zinc powder, hydrochloric acid. Mix together a small amount of Ammonium nitrate and zinc powder. Initiate the reaction by adding a few drops of hydrochloric acid.

II. Choose the correct answer:**[35 marks, each one 5. m]**

- | | | |
|--------------------|-------------------------|--|
| 4. c. Calorimeter. | 5. b. Carbon-14 dating. | 6. c. equivalence . |
| 7. b. coefficient | 8. B. precision. | 9. a. concentration 10. C .relative error |

III. Make the following sentences as required : [20 marks, each one 5 m.]

11. The telephone was invented by Bell.
12. Matter is studied by the chemists.
13. Anna said that she was working hard.
14. Sam said that he lived in the city center.

Examiner

Alaa Ahmad

I. Answer the following questions :

[50 marks]

1. Give one way of making chemical fire without matches ?
2. Define laboratory and mention three kinds of labs ?
3. Give (4) instructions for lab safety in terms of conduct?
4. Define carbon -14 dating ?

II. Choose the correct answer:

[30 marks]

- 5..... is the number in front of the compound or molecule.
- a. Subscript b. Coefficient c. Avogadro's number
6. refers to how well experimental values agree with each other.
- a. Accuracy b. Precision c. Error
7. Refers to the amount of solute.
- a. Concentration b. Precision c. Accuracy
8. is used to work problems concerning mass
- a. Atomic mass b. Atomic weight c. Avogadro's number
9. The moles of acid will equal the moles of base at the point.
- a. balancing b. titration c. equivalence
10. Error / known value =
- a. Error b. Percent error c. Relative error

III. Make the following sentences as required :

[20 marks]

11. Lavoisier established the role of oxygen (passive voice).
12. Adam works on many projects. (passive voice).
13. Lana: I start my job today. (Reported speech).
14. Sam: I am studying for my exam. (Reported speech).

Examiner

GOOD LUCK

Dean

Alaa Ahmad

Dr. Hassan Suleiman

I. Answer the following questions :**[50 marks]**

1. \\15 marks\\ أي طريقة من هذه الطرق الثلاث صحيحة

chemical fire # 1 : Potassium permanganate , glycerin, water . Add a few drops of glycerin to a few crystals of Potassium permanganate. Accelerate the reaction by adding a couple of drops of water.

chemical fire # 2 : Sodium chlorate, sugar, sulfuric acid. Mix a small amount of sodium chlorate and sugar. Initiate the reaction by adding a few drops of sulfuric acid.

chemical fire # 3 : Ammonium nitrate, finely ground zinc powder, hydrochloric acid. Mix together a small amount of Ammonium nitrate and zinc powder. Initiate the reaction by adding a few drops of hydrochloric acid.

2. \\ 15 marks \\ laboratory : is a facility that provides controlled conditions in which scientific or technological research, experiments and measurement may be performed.

Kinds of labs: the film laboratory (dark room)

The computer lab \ the medical lab \ the public health lab

3.The instructions: \\ 12 marks\\ اية أربعة تعليمات صحيحة

1. Eating, drinking and smoking are strictly prohibited in the lab.

2.No unauthorized experiments are to be performed.

3.Never taste anything, never directly smell the source of any vapour or gas.

4.Always wash your hands before leaving lab.

5.Learn where the safety and first-aid equipment is located.

6.Notify the instructor immediately in case of an accident.

4. \\ 8 marks \\ carbon -14 dating : is a method of estimating the age of organic material based on the decay rate of carbon-14.

II. Choose the correct answer:**[30 marks, each one 5. m]**

5. b. Coefficient.

6. b. Precision.

7. a. Concentration.

8. c. Avogadro's number

9. c. equivalence.

10. c. Relative error

III. Make the following sentences as required :**[20 marks, each one 5 m.]**

11. The role of oxygen was established by Lavoisier.

12. Many projects are worked on by Adam.

13. Lana said that she started her job that day.

14. Sam said that he was studying for his exam.

Examiner

Alaa Ahmad

Tartous University
Faculty of science
Chemistry Department

جامعة طرطوس
كلية العلوم
قسم الكيمياء

لغة تخصصية 2 – السنة الثانية – امتحان الفصل الاول /2023-2024/

I. Answer the following questions : (20 marks)

- Why do we use Avogadro's number?
- Give (4) instructions for lab safety in terms of attire.
- Mention three kinds of labs .

II. Complete the following sentences : (25 marks)

- is a chemical change which forms new substances.
- The moles of acid will equal the moles of base at the
- Error / known value =
- refers to the agreement between experimental data and a known value.
- A describes what happens in a chemical reaction .

III. Make the following sentences as required : (20 marks)

- The students work on many projects. (passive voice).
- The scientists discovered new things. (passive voice).
- Reem : I'm reading a new story . (reported speech).
- Sam : we are at home . (reported speech).

IV. Give one way of making chemical fire without matches (15 marks)

V. Translate into Arabic (20 marks)

He was cut short by the judge : " The Republic needs neither scientists nor chemists ,the course of justice cannot be delayed."

Good Luck

Examiner: Doha Salloum

كلية العلوم

قسم الكيمياء

لغة تخصصية 2

امتحان الفصل الاول 2023- 2024

I. 20 marks

1. (6 marks)

To work problems concerning mass and the number of particles in a sample.

2. (8m.) 2 marks for each one

- Safety goggles must be worn at all times.
- Contact lenses are not allowed.
- Closed toe shoes and long pants must be worn in the lab.
- Long hair must be tied back.

3. (6 marks) 2 m. for each one

- The film laboratory
- The computer lab
- The medical lab
- The public health lab

II. 25 marks (5m. for each one)

1. A chemical reaction
2. Equivalence point
3. Relative Error
4. Accuracy
5. A chemical equation

III. 20 marks (5 m. for each)

1. Many projects are worked by the students.
2. New things were discovered by the scientists .
3. Reem said she was reading a new story.
4. Sami said they were at home.

IV. 15 marks

Suggested ways

1. Potassium permanganate – glycerin- water

Add a few drops of glycerin to a few crystals of potassium permanganate

Accelerate the reaction by adding a couple of drops of water.

2. Sodium chlorate – sugar – sulfuric acid

Mix a small amount of sodium chlorate and sugar.

Initiate the reaction by adding a few drops of sulfuric acid.

V. (20 marks)

قو طع من قبل القاضي: لا تحتاج الجمهورية إلى علماء ولا إلى كيميائيين
ومجرى العدالة لا يمكن أن يؤجل

Examiner : Doha Salloum

Tartous University
Faculty of science
Chemistry Department

امتحان الفصل الثاني /2022-2023/

السنة الثانية-

جامعة طرطوس
كلية العلوم
قسم الكيمياء
لغة تخصصية 2 -

I. Answer the following questions : (20 marks)

- Why do we use Avogadro's number?
- Give (4) instructions for lab safety in terms of attire.
- Mention three kinds of labs .

II. Complete the following sentences : (25 marks)

- is a chemical change which forms new substances.
- The moles of acid will equal the moles of base at the
- Error / known value =
- refers to the agreement between experimental data and a known value.
- A describes what happens in a chemical reaction .

III. Make the following sentences as required : (20 marks)

- The scientist works on many projects. (passive voice).
- The inventors made a lot of things. (passive voice).
- Deema : I'm reading a book . (reported speech).
- Sami : we listened to music . (reported speech).

IV. Give one way of making chemical fire without matches (15 marks)

V. Translate into Arabic (20 marks)

He was cut short by the judge : " The Republic needs neither scientists nor chemists ,the course of justice cannot be delayed."

Good Luck

Examiner: Doha Salloum

كلية العلوم

قسم الكيمياء

لغة تخصصية 2

امتحان الفصل الثاني 2022-2023

I. 20 marks

1. (6 marks)

To work problems concerning mass and the number of particles in a sample.

2. (8m.) 2 marks for each one

- Safety goggles must be worn at all times.
- Contact lenses are not allowed.
- Closed toe shoes and long pants must be worn in the lab.

- Long hair must be tied back.

3. (6 marks) 2 m. for each one

- The film laboratory
- The computer lab
- The medical lab
- The public health lab

II. 25 marks (5m. for each one)

1. A chemical reaction
2. Equivalence point
3. Relative Error
4. Accuracy
5. A chemical equation

III. 20 marks (5 m. for each)

1. Many projects are worked by the scientist.
2. A lot of things were made by the inventors.
3. Deema said she was reading a book.
4. Sami said they listened to music.

IV. 15 marks

Suggested ways

1. Potassium permanganate – glycerin- water

Add a few drops of glycerin to a few crystals of potassium permanganate

Accelerate the reaction by adding a couple of drops of water.

2. Sodium chlorate – sugar – sulfuric acid

Mix a small amount of sodium chlorate and sugar.

Initiate the reaction by adding a few drops of sulfuric acid.

V. (20 marks)

قوطة من قبل القاضي: لا تحتاج الجمهورية إلى علماء ولا إلى كيميائيين
ومجرى العدالة لا يمكن أن يؤجل

Examiner : Doha Salloum

I) Answer the following questions. 90 marks

Choose the correct answer.

1. A physical lab might contain:
a. particle accelerator. b. vacuum chamber
c. apparatus for testing their strength. d. a & b.
2. A chemist might use:
a. a room with one way mirror.
b. a hidden cameras to observe behavior.
c. a wet laboratory. d. Both a & b.
3. Modern labs contain one computer workstation for:
a. data collection. b. analysis.
c. both a & b. d. None.
4. In many labs, hazards might include:
a. poisons. b. flammable explosive.
c. infectious agents. d. All.
5. In labs, safety equipment is used to:
a. protect the lab user from injury.
b. assist in responding to an emergency.
c. collect data and analysis. d. Both a & b.
6. Inspections could be conduct to assess hazards due to:
a. chemical handling and storage.
b. electrical equipment and biohazards.
c. Both a & b. d. None.
7. Proper handling of chemicals don't include:
a. dispose chemicals properly.
b. consider all chemicals to be hazardous.
c. Point at test tube. d. Both a & b.
8. Sulfur is: a. an element. b. a compound.
c. both a & b. d. None.
9. The word " mine" is: a. noun b. pronoun
c. verb d. adverb
10. The word " completely" is : a. noun b. pronoun
c. verb d. adverb

Tick or cross. (a : tick - b : cross)

11. The chemical laboratory can be a place of learning.
12. Safety goggles must not be worn in labs.
13. Contact lenses are allowed in labs.
14. Closed shoes must be worn in the lab.
15. Long hair is something good when using open flames.
16. Never directly smell the source of any vapor or gas.
17. If chemicals contact with your skin or eyes, wash immediately.
18. Know what chemicals you are using.
19. In chemical equation, once you have balanced one element, never do the same with another one.
20. A chemical reaction is a chemical change which forms new substances.

Match these words with their meanings.

- a. Biologist b. Error c. Lavoisier d. Accuracy
e. Calorimeter f. Practical accelerator g. Reagent

21. A machine that increases the speed of charged particle to high rate using electrical energy field.
22. One who studies life or works in biology.
23. Instrument that measures amount of heat.
24. A substance used to detect another substance.
25. A measure in the accuracy of the values in your experiment.
26. The agreement between experimental data and known value.
27. The father of modern chemistry.

Translate into Arabic

28. His experiment supported the law of conservation of mass.
29. Consider all chemicals to be hazardous unless you are instructed otherwise.
30. Notify the instructor immediately in case of an accident.
31. It is traditional for a scientist to record an experiment's progress in a notebook.

II) Grammar.

10 marks

Make plurals.

32. wolf 33. Series 34. party

Add the correct prepositions.

35. enter one one.
36. I was born May.

BEST WISHES

Instructor
Actham Ahmad Saleh

الأستاذ: أكرم صالح

علم التصحيح

1) Answer the following questions. 90 marks

Choose the correct answer.

1. A physical lab might contain:
 - a. particle accelerator.
 - b. vacuum chamber
 - c. apparatus for testing their strength.
 - d. a & b.
2. A chemist might use:
 - a. a room with one way mirror.
 - b. a hidden cameras to observe behavior.
 - c. a wet laboratory.
 - d. Both a & b.
3. Modern labs contain one computer workstation for:
 - a. data collection.
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 - c. both a & b.
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4. In many labs, hazards might include:
 - a. poisons.
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 - c. infectious agents.
 - d. All.
5. In labs, safety equipment is used to:
 - a. protect the lab user from injury.
 - b. assist in responding to an emergency.
 - c. collect data and analysis.
 - d. Both a & b.
6. Inspections could be conduct to assess hazards due to:
 - a. chemical handling and storage.
 - b. electrical equipment and biohazards.
 - c. Both a & b.
 - d. None.
7. Proper handling of chemicals don't include:
 - a. dispose chemicals properly.
 - b. consider all chemicals to be hazardous.
 - c. Point at test tube.
 - d. Both a & b.
8. Sulfur is:
 - a. an element.
 - b. a compound.
 - c. both a & b.
 - d. None.
9. The word "mine" is:
 - a. noun
 - b. pronoun
 - c. verb
 - d. adverb
10. The word "completely" is:
 - a. noun
 - b. pronoun
 - c. verb
 - d. adverb

30 marks

1- d 3

2- c 3

3- c 3

4- d 3

5- d 3

6- c 3

7- c 3

8- a 3

9- b 3

10- d 3

tick or cross. (a: tick - b: cross)

11. The chemical laboratory can be a place of learning.
12. Safety goggles must not be worn in labs.
13. Contact lenses are allowed in labs.
14. Closed shoes must be worn in the lab.
15. Long hair is something good when using open flames.
16. Never directly smell the source of any vapor or gas.
17. If chemicals contact with your skin or eyes, wash immediately.
18. Know what chemicals you are using.
19. In chemical equation, once you have balanced one element, never do the same with another one.
20. A chemical reaction is a chemical change which forms new substances.

20 marks

11- a 2

12- b 2

13- b 2

14- a 2

15- b 2

16- a 2

17- a 2

18- a 2

19- b 2

20- a 2

علم التصحيح

Match these words with their meanings.

- a. Biologist b. Error c. Lavoisier d. Accuracy
e. Calorimeter f. Practical accelerator g. Reagent

21. A machine that increases the speed of charged particle to high rate using electrical energy field.
22. One who studies life or works in biology.
23. Instrument that measures amount of heat.
24. A substance used to detect another substance.
25. A measure in the accuracy of the values in your experiment.
26. The agreement between experimental data and known value.
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30. Notify the instructor immediately in case of an accident.
31. It is traditional for a scientist to record an experiment's progress in a notebook.

ii) Grammar.

10 marks

Make plurals.

32. wolf 33. Series 34. party

Add the correct prepositions.

35. enter one one.
36. I was born May.

BEST WISHES

Instructor
Acham Ahmad Saleh

English
Chemistry

20 marks

لکل سوال 3 درجات / عدداً سوال 27 : درجہان

- 21 - F 3
22 - a 3
23 - e 3
24 - g 3
25 - b 3
26 - d 3
27 - c 2

لکل جملہ ترجمہ خمس درجات / 20 marks

- 5 - اُکدیت تجاربہ علی قانون حفظ الکلتہ
5 - اعتبر کل المواد الکیمیایہ خطرة عالم یاتیک
تعلیمات بعکس ذلک
5 - أخیر المحاضر / المرشد فوراً فی حال وقوع حادث
5 - من الطبیعی بالنسبة للعالم أن یسجل مراحل تجربته (تقدمها) فی ففکره (دفتر)

10 marks

- 32 - wolves 33 - series 34 - parties
2 2 2

- 35 - by 2
36 - in 2