

## Practical Toxicology 4<sup>th</sup> biomedical Science

### College of Science- Salahaddin University

#### Question Bank

Q1/ Write the purpose of using and name of the test?

1. muffle furnace
2. UVC
3. kjeldahl flask
4. Vinegar and salt
5. Iodine

Q2/A- Write the name of the test and its principle?

B- Prepare arsenic reference solution 10 mg/L from arsenic stock solution 1000 mg/L?

Q3/ What are the toxics we used in the lab and how are their result interpretations?

Q4/ If you have 4 ml blood sample, how you prepare it for this test?

Q5/ Write the name of the test and toxicants used?

Q6-What are the abiotic conditions that affect on the result in this test?

Q7/ What are the mechanism action or toxicity effects on our body of the followings?



1. Hydrocarbons
2. Non ionizing radiation or ultra violet
3. Food additive
4. Heavy metals like (Lead)

**Q8/ A- Write the name of the test and the purpose of using this test for milk?**

**C- Illustrate the procedure in brief ?**



**Q9/ A- Write the name of the test?**

**B- Write the name of toxicant used?**

**C- Write the factors affect on the test ?**



**Q10/ A- Write the name of steps A and B and describe it?**

**B- In which test used ?**



**A**

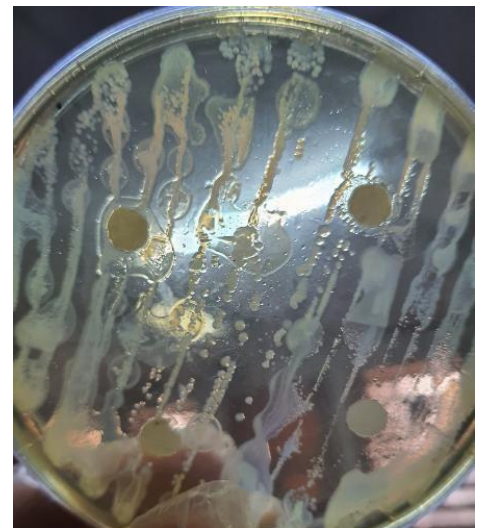
**B**

**Q11- What is LD50 ?**

**Q12/ A- What is the name of the test? Explain A, B and A+B? What type of effect and determine it is FIC?**



**Q13/ Write the name of the test and solutions used ? Discuss the result ?**



**Q14/ What is the purpose of using the following:**

1.  $\text{H}_2\text{SO}_4$
2. Ethanol
3. Hood
4. warning signs
5. Iodine

**Q15/ A- Identify this instrument?**

**B- What is the purpose of using it and name of the method?**



**Q16/ Why you should be aware from hazardous materials and you should not be alone during work in the laboratory?**

**Q17/ Illustrate the toxicity of hydrocarbons with diagram?**

Q18/ acute toxicity study can be obtained by?

- A- Median toxic dose (TD50)
- B -Median lethal dose (LD50)
- C -No Observed Adverse Effect Level (NOEL)

Q19/Threshold dose is

- A- The dose level at which mortality starts occurring.
- B -A threshold for lethal dose.
- C -The dose below which no effects appear.
- D-The dose at which 50% animals exhibit toxicity signs

Q20/ Which of the following can be a source of toxicants?

- A- Car
- B -Fruits
- C- Cosmetics
- D -Medicines
- E -All of the above

Q21/ Which one of the following elements is required by our body for normal functioning of some enzymes?

- A -Mercury (Hg)
- B -Zinc (Zn)
- C -Lead (Pb)
- D -Antimony (Sb)
- E -Scandium (Sc)

Q22/ Ppm (parts per million) is equivalent to \_\_\_\_\_

Q23/ What is antidote ?

Q24/ Dose is defined as the amount of\_\_\_\_\_

Q25/ the normal functions of the metals in the body  
like\_\_\_\_\_.

Q26 /What is the mechanism action of toxicity of Arsenic?



Q27/ The sources of hazards are.....

Q28/ What category of toxins are encountered in our life?

Q29/ Chronicity Index is the ratio of acute to chronic.....dosage

Q30/ An example of classification of poisons according to their use

- A) Hepatotoxic
- B) Food additive
- C) Pesticide
- D)Carcinogen

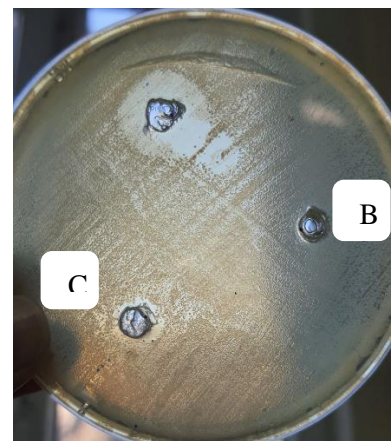
Q31/ A- Write the name of the test and the toxic materials used A, B and C, which one is more toxic, why?

B-What are the biotic conditions affect on the result in this test?

C- Spirit must not be used for cleaning the skin in blood alcohol detection test?

Q32/ A-write the name of the device and test? Is cold has role in the toxicity, how?

Q33/ How you manage a treatment for a patient ingesting around 25 tablets acetaminophen 5 hrs. later?

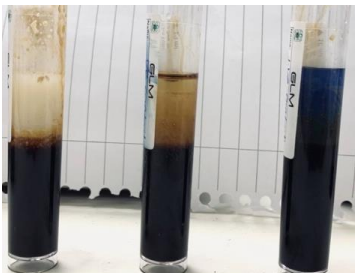


Q34/ -Write the name of the experiment, toxic metal, doses, route of exposure, anesthetizing and toxicity study?

Q35/ A long term accumulation of heavy metals result in the depletion of physical, muscular and neurological and cause .....and.....diseases.

Q36/ A-Write the name of the test, describe the results?

B-Write the name of the test?



Q37/ An emergency patient appears pink skin, paralysis and bitter almond odor. What is your expectation toxicity? Write other signs and symptoms you expect?

Q38/ A young male presents to the emergency unable to give a history, after a while he died, but you find a high ketone bodies concentration in the test, probably what type of toxicity you expect? what are the expected causes of death?

Q39/ A-Acetaminophen exerts its effects through the inhibition of cyclo-oxygenase (COX), by which metabolic mechanism?

Q 40/ What is the purpose of using and name of the test? (choose 5)

1. Muffle furnace
2. Sodium hydroxide and ferrous sulfate
3. Potassium dichromate
4. Vinegar and salt
5. O- cresol
6. Hydroxocobalamin (Vitamin B12)
7. Hood



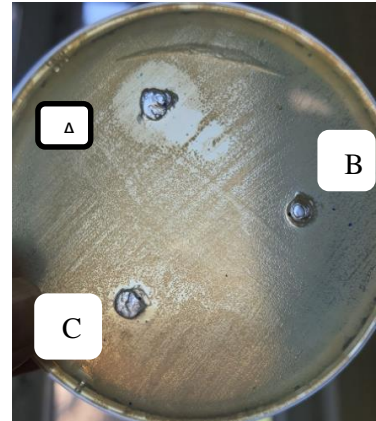


Q41/ What is the mechanism action or toxicity effects in human body?

1. Hydrocarbons
2. Non ionizing radiation(UVC)
3. Formalin

Q42 / A- Write the name of the test and the toxic materials used A, B and C, which one is more toxic, why?

B-What are a biotic conditions affect on the result in this test?



Q43/ A-write the name of the device and test?

B- a patient ingesting high amount of alcohol, what are the signs and symptoms?

Q44/ Write the name of the experiment, toxic metal, doses, rout of exposure and toxicity study?



Q45/A number of factors determine the efficacy of the UV germ light?

Q46/ A-Write the name of the test, describe the results?

B-Write the name of the test?



A B C





Q47/ Write the medical applications of cyanide?

Q48/ A patient ingests high dose of acetaminophen, what is the treatment should give?

Q49/ A- Chronic study is

.....

Q50/ What is the purpose of using and name of the test?

1. breath analyzer machine
2. formalin
3. Potassium dichromate
4. Vinegar and salt
5. UVC