Q1/A-Write the main composition of Muller Hinton agar media (4)

B-What is the purpose of each chemical substance in it? (4)

Q2/A-According to temperature microorganism are grouped into ………………., ………………… and ……………… (3)

B-*Trichoderma* sp. is a ……………. It belongs to………………. group. (2)

3/Explain how can you record your result after 24 hr.? (2)

-If you test the effect of pH on a microorganism

-If you test the effect of a plant extract on a microorganism

Q4/ A-The composition of Gas pack jar is ……………….,…………………and……………… (3)

B-According to the pH, for which group the yeast (*Candida* sp.) belongs to? Then how you can determine optimum, minimum and maximum pH of growth? (2)

Q5/ How can you prepare a pre reduced media for isolation of anaerobic microorganism? (3)

Q6/ Write the methods of sterilization for the following: (4)

1. Disposable loop 2. Glass pipette 3. Needle 4. Culture plate

Q6/If you have just a few samples for anaerobic cultivation, which method will you choose and why? (2)

Q7/Microorganisms can repair the damage of DNA by two mechanisms, mention them with their enzymes.

Q8/Define isotonic solution? (1)

9/ A) Explain the factors that modifying the action of Antiseptics and Disinfectants (5)

Q10/ 1. Copper is used as …….. to retard the growth of algae in swimming pools.

2…… is useful as ……… in mouthwashes and as ……. as an antifungal agent in paints (3)

Q11/ Why do you think most of the drugs are alkaloid based? (2)

Q12/ Plant materials remain an important resource to combat serious diseases in the world. Explain (2)

Q13/When an antibiotic becomes a biostatic and when it will be a biocidal? (2)

**Good Luck**

 ***Assistant Lecture***

 ***Neveen N. Rajab***