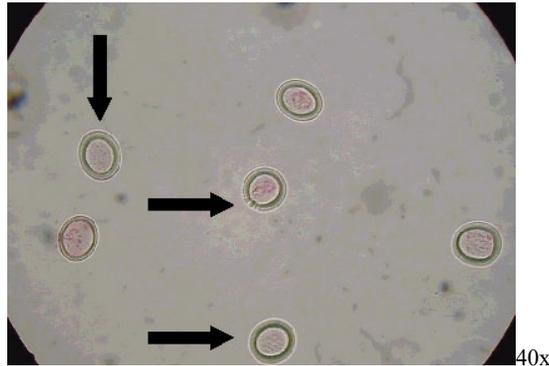


Mid Term Lab Practical

Lab practicals can be very stressful so here are some tips to reduce the stress:

- a. Remind yourself that you know all the answers.
- b. Practice deep, relaxing breaths before you move to the next station.
- c. Notice the power of the objective--if it's 100x, you know it's bacteria!
- d. Concentrate on one question at a time...don't worry about the others.
- e. Take the sample practical below to test yourself.

1. The structures at the pointers are:
 - a. ova
 - b. capsules
 - c. cysts
 - d. trophozoites
 - e. spores



2. The organism in #1 belongs to which group?
 - a. bacteria
 - b. fungi
 - c. protozoa
 - d. helminths
3. The name of the organism in #1 is
 - a. *Bacillus subtilis*
 - b. *Trypanosoma sp.*
 - c. *Taenia sp.*
 - d. *Enterobius vermicularis*
 - e. *Candida albicans*

4. The structure at the tip of the pointer is a
 - a. ovum
 - b. capsule
 - c. cyst
 - d. trophozoite



5. What disease does it cause?
6. How is this disease transmitted?
 - a. bite of mosquito
 - b. ingestion of contaminated water
 - c. eating undercooked contaminated pork
 - d. bite of tsetse fly
7. In what type of clinical specimen would you expect to find the organism shown in #4?
8. To what group does the organism in this picture belong?

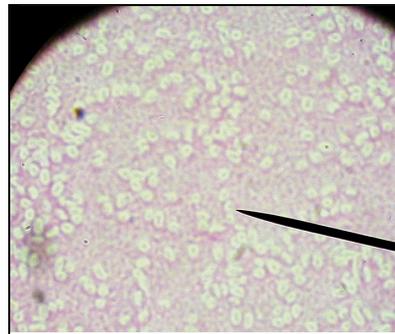
- a. bacteria
- b. fungi
- c. protozoa
- d. helminths



40x

9. Which of the following is it?
- a. *Klebsiella pneumoniae*
 - b. *Trichomonas vaginalis*
 - c. *Candida albicans*
 - d. *Entamoeba histolytica*
 - e. *Giardia lamblia*

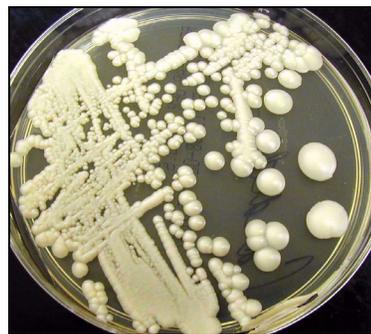
10. What structure is shown at the tip of the pointer?
- a. nucleus
 - b. spore
 - c. cyst
 - d. capsule
 - e. ovum



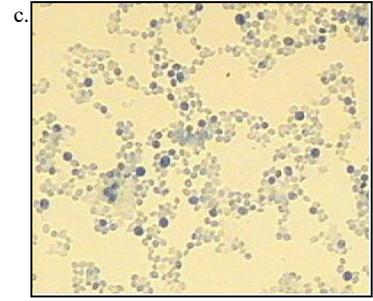
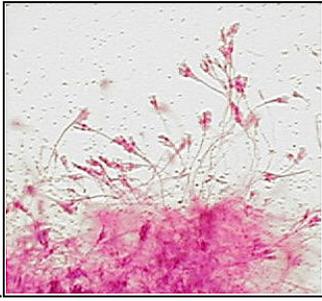
100x

11. Which of the following organisms has the structure in #10.?
- a. *Ascaris lumbricoides*
 - b. *Penicillium sp.*
 - c. *Klebsiella pneumoniae*
 - d. *Entamoeba histolytica*
 - e. *Giardia lamblia*

12. What specimen would be taken if the doctor suspects a patient has TB?



13. The macroscopic growth on this plate matches which of the microscopic images below?



14. Is this plate a good example of the streak for isolation technique?



15. Describe the Gram reaction and shape of the organisms in this slide.

Image from CDC Public Health Image Library; Dr. Richard Facklam



16. Which of the following could it be?
a. *Candida albicans*
b. *Clostridium botulinum*
c. *Escherichia coli*
d. *Staphylococcus epidermidis*

[Check your answers](#)

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