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

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

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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