

Question Bank of General Microbiology/2nd stage

Q1/ A/ Write the name of this apparatus and identify the pointed parts, and then write the function of each. **Name of the apparatus:**

- 1.
- 2.

B/ Mention the types of Microscope which is used to:

1. Observe the outer surface of bacteria
2. Observe live spirochetes

Q2/ A / Mention the methods of sterilization for the following: 1.

- 2.
- 3.
- 4.
- 5.

B/ an agent that kill bacteria.

Q3/Name and classify these media functionally:

- 1.
- 2.
- 3.
- 4.
- 5.

Q4/ A / Give an example for the following:

- 1.
- 2.
- 3.
- 4.

B/ *Klebsiella pneumonia* produce mucoid colonies.

Q5/ A / Identify these tubes and then write the name and the purpose of thistest. 1.

- 2.

B/ Give an example of bacterium with Peritrichous Flagella.

Q6/ A / Answer the following questions according to this bacterial culture:

- 1. Name of bacterium**
- 2. Type of movement**
- 3. Name of culture medium**

B/ is a rectangular-shaped bacterium.

Q7/ Write the shape and arrangement of these bacteria with example?

- 1.**
- 2.**
- 3.**
- 4.**
- 5.**

Q8/ A / Write the growth patterns of the following cultures:

- 1.**
- 2.**

B/ Prepare 200 ml of this medium.

Q9/ Describe the colony morphology of this culture?

- 1. Form:**
- 2. Opacity:**
- 3. Margin:**
- 4. Surface:**
- 5. Elevation:**

Q10/ A / Give a reason to the followings:

- 1. Antibiotic is sterilized by filtration.**
- 2. MacConkey agar is considered as a differential and selective medium.**
Differential:
Selective:
- 3. Soil is rich in microorganisms.**

B/ Classify culture media according to physical state

Q11/ Observe the slide and write:

- 1. Name of the bacterium** →
- 2. Name of the primary stain** →

Q12/ Observe the slide and write:

1. Method of the staining →
2. Name of the mordant →

Q13/ Observe the slide and write:

1. Name of the primary stain →
2. Name and Function of the Mordant →

Q14/ Observe the slide and write:

1. Method of the staining →
2. Name of the decolorizer →

Q15/ Answer the following:

1. In acid fast staining procedure, the smear must be heated for 5 min, why?
2. In which staining procedure the smear shouldn't heat, and why?

Q16/ Observe the slide and write:

1. Method of the staining →
2. Name of the secondary stain →

Q17/ Observe the slide and write:

1. Name of the Microorganism →
2. Incubation time of this Microorganism →

Q18/ Observe this culture and write:

1. Method of the staining →
2. Purpose of the staining →

Q19/ Give an example for the following:

1. A bacterium with terminal endospore →

2. A bacterium with monotrichous flagellum →
3. A bacterium with polypeptide capsule →
4. A negative stain →

Q20/ Write the name of a stain for mold staining, then write its components and the purpose of each.

Assist. Lecturer / Niga Othman Hamaameen