

VIVA VOCE

ACTIVITY 2 — (Study of Bacteria)

Q 1. What do you mean by Gram +ve and -ve bacteria?

Ans. Gram +ve bacteria can absorb the violet gram's iodine solution, so their colour is violet (purple). Gram -ve bacteria do not absorb this solution, so their colour is not violet. They show pink colour of safranin.

Q 2. What is colour of gram stain?

Ans. The colour of gram stain is violet (purple).

Q 3. What do you mean by inoculation?

Ans. Inoculation is the procedure of preparation of bacteria culture or spreading the bacteria on slide for observation.

Q 4. What do you mean by Hay-infusion and how it is prepared.

Ans. Hay-infusion is the growth of bacteria. Hay or dried grass blades are taken in a dish with water and boil it for few minutes. Then it is left for few days. It results in the growth of bacteria.

Q 5. How many shapes are there of bacteria?

Ans. Bacteria are of four types according to their shape. (i) Cocci - Spherical; (ii) Bacilli - Rod-shaped; (iii) Spirilli - Spiral-shaped; (iv) Vibrio - Comma-shaped.

Q 6. How bacteria contaminate milk?

Ans. Bacteria enter the milk and produce ethyl alcohol by fermentation, it is spoiled by their activity.

Q 7. Why the agar plate having fresh milk has very small size of colonies of bacteria?

Ans. In fresh milk bacteria have not started their reproduction, so they have few numbers in the form of small colonies.

Q 8. What the agar plate having stale milk has very large size of bacteria colony?

Ans. In stale milk there is rapid growth of bacteria, so it has very large size of bacterial colony.

Q 9. Why milk becomes stale if kept outside refrigerator?

Ans. When milk is kept outside refrigerator, the bacteria have rapid process of their activity to produce alcohol, so it is spoiled.