

- (v) Treat the smear with alcohol to decolourize it until no colour comes out from the smear.
- (vi) Stain it with safranin for 30 seconds, wash with water and dry in the air.
- (vii) Examine the smear under oil emersion lense, observe the bacteria.

Observation of Gram +ve bacteria

Characters: (thick layer peptidoglycane) (dark blue or purple)

- (i) These bacteria have absorbed violet colour, so they are called **Gram +ve** bacteria.
- (ii) They are rounded bacteria i.e. cocci bacteria or rod-shaped bacteria i.e. bacilli bacteria.
- (iii) Their cell wall contains low amount of **lipids** (1-4%).
- (iv) Small amount of lipids is dissolved readily in alcohol by minute pores in cell wall.

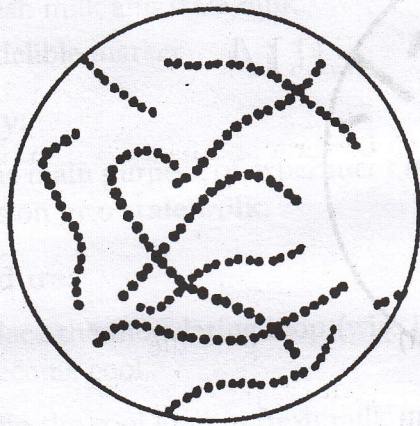


Fig. 3(A): Gram +ve Strepto Cocci (chain like rounded bacteria) showing violet colour.

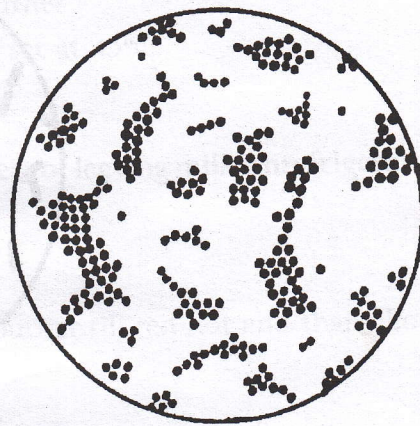
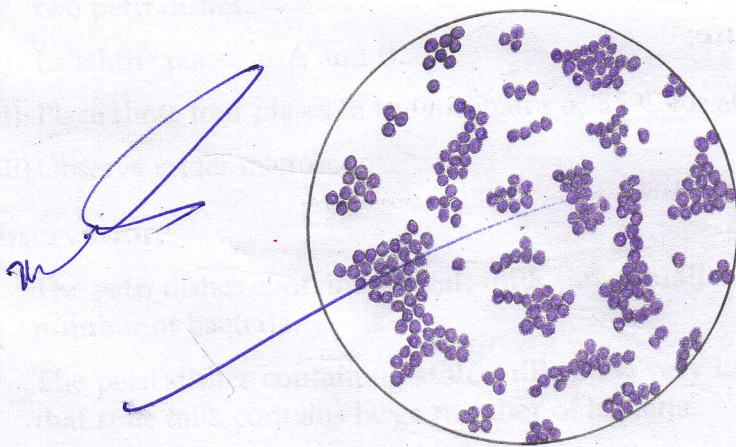


Fig. 3(B): Gram +ve Staphylo Cocci (groups of rounded bacteria) showing violet colour.



Gram +ve Staphylo Cocci
(groups of rounded bacteria) showing violet colour.