**B- Enumeration of total bacterial count in water by (M.P.N) :-**

The principle of most probable number (MPN) per 100 ml : is replicate the growth of viable microorganisms by dilutions of the sample that inoculate in each set tubes or row contains a growth medium .

 - All three rows (R1, R2, R3) of five test tubes in the rack , must be contain 10 ml (media volume + the sample).

 Procedure :

1. The first row R1 contains double concentration of liquid medium.
2. The tubes in second and third rows (R2 & R3) contain normal concentration of liquid medium .
3. Sterilization is done
4. The sample inoculates as follows:

R1 = 5 ml of water sample to 5 ml of liquid media (double strength medium).

R2 = 1ml of water sample to 9 ml of liquid media (single strength medium).

R3 = 0.1 ml of water sample to 9.9 ml of liquid media (single strength medium).

1. The tubes are shaken .
2. Placed the rack in an incubator for 24- 48 hr.
3. After this period . the MPN is found from statistical table (McCrady).

