

## Lab1

### Instructions in the lab

- 1) Lab coat should be worn before the entry to the lab over street clothes and remove before leaving
- 2) In typical way, laboratory workers should wear mask and gloves.
- 3) Do not eat, drink or smoke inside the lab, these should be done in isolated room or rest room.
- 4) Do not bite the nail or put the pen into the mouth.
- 5) Do not put pipette in the mouth
- 6) Assume that patients are infectious for HIV or blood borne disease.
- 7) Wash the hands thoroughly after removing the gloves or if there is any contamination

### Care and Use the Microscope

The microscope is the most useful device of the microbiologist. The main components of compound microscope are :( Fig.1)

The magnification tube: is a lens system that includes the eyepiece: magnifies the object 10 times. The objective lenses are the most important component of the microscope are responsible for the magnification and the resolution of the image. The objective lenses are: The low power (x5 to x10), the high power (x40) the oil immersion (x100)

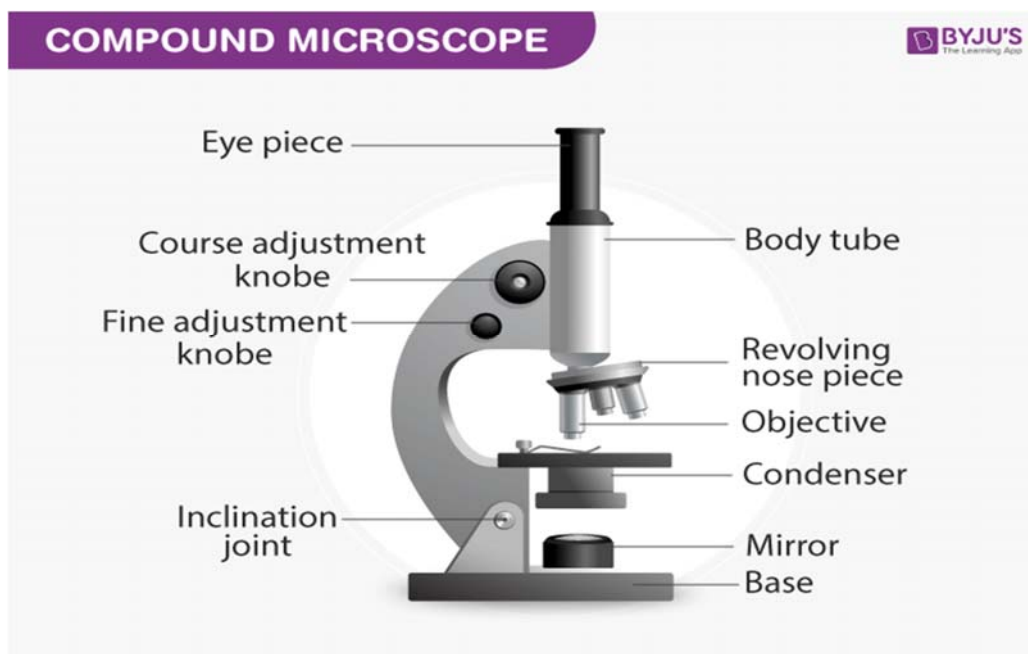
The total magnification of the system is determined by multiplying the power of the eyepiece times the power of the objective lens (10x10, 10x40, and 10x100).

2-The condenser: The function is to control the light that has been reflected

3-The adjustment knob:

a- The coarse adjustment-moves the objective lens down rapidly.

b- The fine adjustment-moves the objective lens down slowly.



**Figure (1)**