

CONTENT

MICROSCOPES

BASIC TECHNICAL TERMS OF A MICROSCOPE

“Microscope is a device used to view the magnified image of a smaller object, which cannot be seen through a naked eye”.

❑ Microscope

- a device used to view the magnified image of a smaller object

❑ Magnification Power

- ability of the microscope to show the image of an object in an enlarged manner

$$\text{Magnification power} = \frac{\text{Angle subtended by the final image at eye}}{\text{Angle subtended by the object at eye placed at the near point}}$$

❑ Resolving Power

- ability of an instrument to form a distinct and separable images of two point objects which are close to each other.

The resolving power is inversely proportional to wavelength.