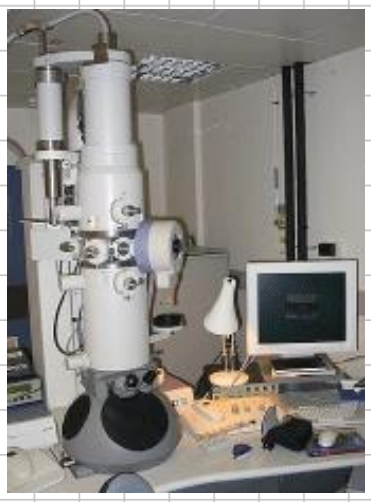
B. ELECTRON MICROSCOPE

- Used to investigate the ultrastructure of biological and inorganic specimens



a) TRANSMISSION ELECTRON MICROSCOPE (TEM)

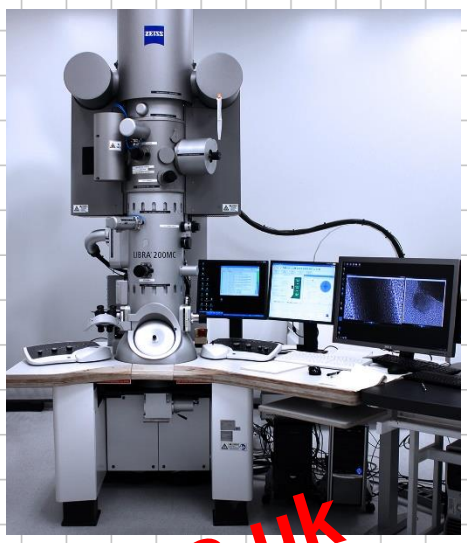
- Used to visualize and generate highly magnified images
- Uses particle beam of electrons

b) SCANNING ELECTRON MICROSCOPE (SEM)

- Produces image of a sample by scanning the surface with a focused beam of electrons

c) SCANNING TRANSMISSION ELECTRON MICROSCOPE (STEM)

- Used to describe specimens at the atomic and nanoscale levels



d) SCANNING TUNNELING MICROSCOPE (STM)

- Used for imaging surfaces at the atomic level
- Based on the concept of quantum tunneling