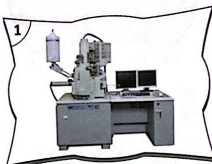


Microscopes are devices for looking at things that are normally too small for the human eye to see. Below are given the brief descriptions of some modern microscopes. Write their names.



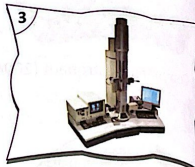
This microscope scans the surface of an object to magnify it by upto 100,000 times. It can clearly reveal the tiny nerve fibres inside the human brain.

Scanning Electron Microscope



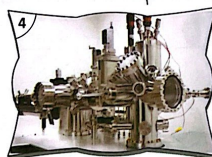
This microscope magnifies the image by upto 2,000 times. In this microscope an objective lens bends light rays apart to enlarge what you see. An eye piece lens makes the big image visible.

Optical Microscope



This microscope magnifies by firing streams of electrons at the objects. The electrons bounce off the objects on to a fluorescent screen which makes it visible.

Electron microscope



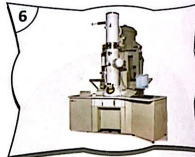
This microscope is so powerful that it can reveal individual atoms very clearly.

Scanning Tunneling Microscope



This microscope uses sound waves to inside tiny objects accurately to study their details.

Scanning Acoustic Microscope



This microscope shines through thin slices of an object to magnify them millions of times.

Transmission Electron Microscope

### Know More

The idea of electron microscopes came from French scientist Louis de Broglie in 1924.



Electron Microscope  
Optical Microscope  
Scanning Electron Microscope

Scanning Tunneling Microscope  
Scanning Acoustic Microscope  
Transmission Electron Microscope

## SELF EVALUATION-2

### A. Choose the correct option.

1. Name the microscope that can reveal individual atoms very clearly?  
(a) Electron Microscope  
(b) Optical Microscope  
(c) Scanning Tunneling Microscope
2. Who was the first Indian astronaut to go to space?  
(a) Rakesh Sharma (b) Mike Melvill (c) John Glenn
3. Who is known as the "Father of the Digital Revolution"?  
(a) Paul allen (b) Steve Jobs (c) Martin Cooper
4. Who discovered the planet Uranus in 1781?  
(a) William Herschel (b) Galileo Galilei (c) Edwin Hubble
5. The full form of 'ROM'.  
(a) Read Over memory (b) Read Only Memory (c) None of these

### B. Fill in the blanks.

1. Aryabhatta is an Indian astronomer and mathematician, who invented algebra.
2. K is the symbol of potassium element.
3. Anaemia is the deficiency of red blood cells.
4. Jagdish Chandra Bose invented the Crescograph to measure growth in plants.
5. Iron metal makes the strongest magnet.
6. Jimmy Donal Wales is the cofounder of the online encyclopedia called Wikipedia.
7. SSI MANTRA is the name of the first Indian Surgical Robot made by Dr. Sudhir Prem Srivastava.
8. Computer understands binary language.

### C. Answer in one word.

- |   |                           |
|---|---------------------------|
| 1. The study of the universe.           | <u>Cosmology</u>          |
| 2. The study of handwriting.            | <u>Graphology</u>         |
| 3. The study of viruses.                | <u>Virology</u>           |
| 4. The study of bacteria.               | <u>Bacteriology</u>       |
| 5. The study of human skin.             | <u>Dermatology</u>        |
| 6. Invented email.                      | <u>Ray Tomlinson</u>      |
| 7. The child is the father of the man.  | <u>William Wordsworth</u> |
| 8. Invented the World Wide Web.         | <u>Tim Berners-Lee</u>    |
| 9. First element in the Periodic Table. | <u>Hydrogen</u>           |
| 10. First Commercial Astronaut.         | <u>Mike Melvill</u>       |