

Micro robot:-

- A micro robot is a minimized, sophisticated machine design to perform a specific task or tasks repeatedly and with a precision.
- micro robots typically have dimensions ranging from a fraction of a millimeter up to several millimeters.
- A micro robot, like its larger and smaller cousins, the robot and the nano robot, it can be either autonomous or insect-like.
- An autonomous micro robot contains its own on-board computer, which controls the machine and allows it to operate independently.
- The insect scheme is more common for the micro robots.

Micro Pump:-

- The controlling fluids and precise measurement of the fluids are very important in drug delivery systems. For these purpose MEMS based micro pumps are used.
- major designs are based on size, pressure and bio compatibility.
- 2 types
  - mechanical type
  - Non-mechanical type
- Egs. Electrostatic, piezoelectric, bimetallic, thermopneumatic & shape memory alloys (SMA)