








CHAPTER-13


SURFACE AREAS AND VOLUMES

GLOSSARY :

-  **Volume:** The space occupied by a solid is called its 'volume'.
-  **Surface area:** Area covered by the outer surface of the solid body is called its 'surface area'.
-  **Area :** 'Area' is the size of a surface, that is the extent of a plane figure or surface, measured in units of $(\text{length})^2$.
-  **Cone :** 'Cone' is a solid whose base is a plane closed curve also known as 'guiding curve' and a point outside the plane, called 'vertex'.
-  **Cylinder :** 'Cylinder' is a solid defined by a closed curve called 'guiding curve' or 'directrix', with an identical curve parallel to it.

-  **Cylindrical** : An object whose shape is cylinder is referred to as 'cylindrical.'

-  **Sphere** : 'Sphere' is a solid generated by the revolution of a semicircular area about its bounding diameter.

-  **Slant Height of a cone** : The length of a generating line of a right circular cone, that is the distance of any point on the circumference of the base from the vertex of the cone is referred to as its 'slant height.'