Physics:

① define the term denisity of a substance.

→ density, mass of a unit volume of a matered substance. The formula for density is $d = M/V$ where d is density.

② Name the SI unit of denisity. How is it reelected to gcm^{-3}?

→ The SI unit of kilogram per cubic metere and the cgs unit of gream per cubic centimetere are probably the most commonly used units for density.

③ The density of breass is $8.4 \, gcm^{-3}$ what do you mean by this statement?

→ The density of the body is the amount of matter it contains for each unit of its Volume. When we say denisity of breass is $8.4 \, gm/cm^3$ it means that $1 \cdot cm^3$ of breass.

④ Arrange the following substances in order of theire increasing density Freon, cork, breass, watter, mercoy

⇒ Mercury, water, cork, Preon, breass.

⑤ How does the density of a liquid or gas vary with temp?
⇒ When temp varies, the volume of the liquid changes. So, due to this change is volume, the density varies with the change in temp.

⑥ A given quantity of liquid is heated which of the following quantity will vary and how?
⇒ But its pore you right now when heat ore get heat to the liquid what we see we have to sit over here the B point as it is the volume of the liquid into it.

⑦ Describe an determine density of the material of a coin.

=> The density of a coin can be known easily by measuring the weight of the coin can be in the aire and the weight of the coin displaced by the amount of water. Density is the ratio of mass to the Volume. There fore, measuree the weight of the coin in the aire by a precision Scale as M. Get a beakere foll of water and weigh it.

8) what is density bottle? How is it used to find the density of a liquid?

=> density bottles are mainly used to determine the density of liquid of moderate Viscosity they are not Volumetric instruments. however they are calibrated to contain as in the case of Volometric flasks.