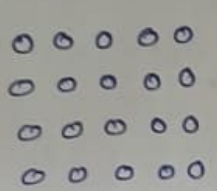
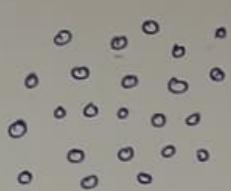


Q) Differentiate between crystalline and Non-crystalline materials.

<u>crystalline</u>	<u>Non-crystalline</u>
<p>i) The materials in which atoms are arranged in regular and periodic manner.</p> 	<p>i) The materials in which atoms are arranged in random manner.</p> 
ii) They are having long range order.	ii) These are having short range order.
iii) These are having regular cut.	iii) Non-crystalline materials are having irregular cut.
iv) Crystalline materials are having sharp melting and boiling points.	iv) These don't have sharp melting and boiling points.
v) Crystalline materials are anisotropic in nature i.e, they show different properties in different directions.	v) These are isotropic in nature i.e they show same properties in all directions.
vi) High and fixed heat of fusion.	vi) No fixed heat of fusion.
<p><u>ex</u>: Silicon (Si), Germanium (Ge), Quartz.</p> <p>organic materials: sugar, salt.</p>	<p><u>ex</u>: Glass, ceramic, polymers</p> 