

3) Difference between the following pairs of terms:

a) Radicle and plumule

Ans- The radicle develops into a root. While the plumule

u) Give two functions of fruit.

Ans- The two functions are

i) It protects the seed from the unfavorable environmental conditions.

10) Name the following

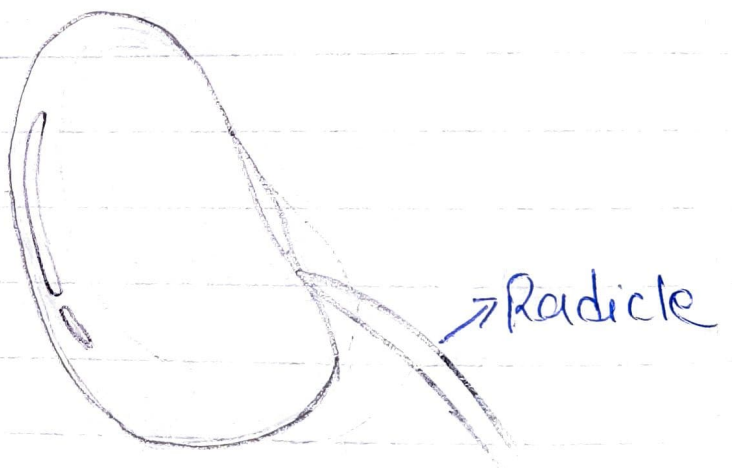
a) Roots - Radicles

b) Leaves - Plumule

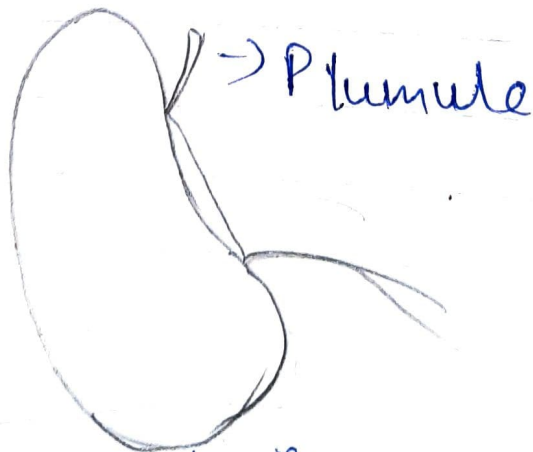
i) In the spaces provided below draw labelled diagram to show the ~~at~~ three stages in the germination of any seed you have observed.



Complete seed



Radicle emerged



Plumule emerged



4) With the help of a suitable diagram, describe the structure of a dicot seed.

Ans- The bean seed is an example of a dicot seed. whose is shown below. The green outermost covering of the seed is called the seed coat. It protects the seed from insects and bacteria as well as from mechanical injury. The seed coat again made up of the two parts. The out exposed part is called the testa and the inner part is called

tegmen. A scar called hilum is present in the inner concave side of the seed. This is the place where ~~is a small~~ the seed is attached to the fruit wall. Above the hilum there is a small pore called micropyle. It absorbs and allows the entry of water required for germination. The seed is made up of two fleshy seed leaves called the cotyledons. They contain



stored food materials which is used by the seedling for growth. In between the two cotyledons a delicate embryo is located, which consists of radicle and plumule. The radicle develops into a root and the plumule develops into a shoot.