

Hw  
9/10/21

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Ch-2 Worksheet ~~Leaf~~ (Flower)  
Date \_\_\_\_\_  
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1. Answer:

- 1) Testa: Testa is the outer part of the seed coat which is visible outside. It is the protective covering which protects the seed from mechanical injury and bacteria and other harmful substances.
- 2) Plumule: The plumule is the part of the embryo that will develop into a shoot.
- 3) Radicle: It is the part of the embryo which develops into root.
- 4) Micropyle: Micropyle is a small passage which allows the entry of adequate amount of water into the seed for germination.
- 5) Cotyledons: Cotyledons store food and help in the nourishment of seed.

2. Name of the following's

a) A seed which shows hypogeal germination.

Ans - Pea seed.

b) A monocot seed

Ans - Maize grain

- 1) Ans- Bean seed  
 2) Maize grain

3. d) Radicle

Radicle is the baby root.

~~Radicle absorbs~~  
~~water~~

Plumule

Plumule is the baby shoot

b) ~~Hilum~~ is Hilum is a scar in the inner concave side of the seed which marks the place where it was attached to the fruit, while micropyle is ~~the~~ a small passage above the hilum which allows the entry of water for seed germination.

c) Testa is the outer exposed part of seed coat while tegmen is the inner membranous part of the seed coat which lies under the testa.

4. Two functions of a fruit:-

\* Fruit protects the inner seed part from unfavourable conditions.

\* Fruits store food inside them.

5. Column A

- a) Radicle
- b) Plumule
- c) Cotyledon
- d) Testa
- e) Micropyle

Column B

- iii) Root
- i) Shoot store food
- ii) ~~Protection of seed~~ <sup>may</sup> <sub>for</sub> <sup>trial</sup>
- v) Protection of seed
- iv) Absorb water needed for germination

6. Radicle emerges out of the seed earlier than plumule. This gives the advantage that the radicle develops into root and collects water from soil to make food and provides nutrients to the seed.

7. a) X

b) ✓

c) X

d) ~~X~~ ✓

8. a) Radicle: Radicle develops into a root.
- b) Cotyledon: It stores food material used by seedling for growth.
- c) Endosperm: It stores food in form of starch.
- d) Micropyle: It is a small passage on the seed which allows entry of adequate amount of water for germination.

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Ch-2  
Flower  
Worksheet

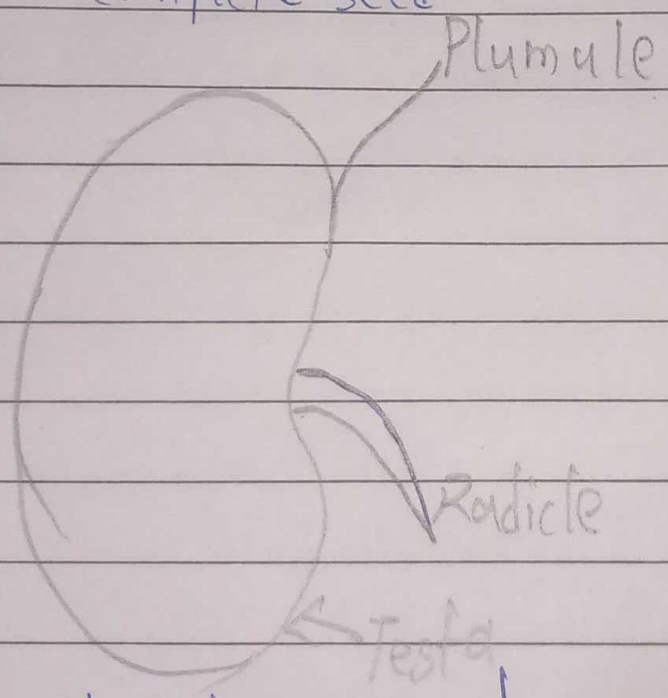
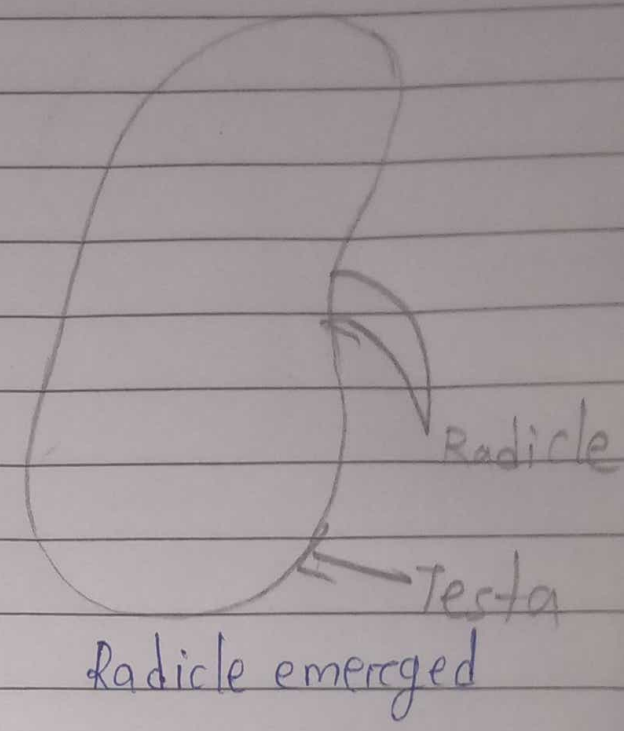
9. a) Oxygen, suitable temperature and water

10. a) Roots: Radicle  
b) Leaves: Plumule

11.



Complete seed



Plumule emerged

BEAN SEED