



BIOLOGY

BOOKS - ICSE

SEEDS - STRUCTURE AND GERMINATION

Topic 1 1 Mark Questions

1. Give an example of a monocot seed.



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2. Maize, rice and wheat are rich in food.



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3. Name a seed which has folded plumule leaves.



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4. Which part of a seed helps it to absorb water ?



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5. What is a seed?



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6. The outermost layer of maize endosperm is known as



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7. What is a fruit? State its function.



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8. Give any two examples of dicotyledonous seeds.



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1. Differentiate between the following pairs on the basis of what is given in the brackets.

Testa and Tegmen (location)



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2. Differentiate between the following pairs on the basis of what is given in the brackets.

Radicle and Plumule (function)



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3. Give any two examples each of endospermic (albuminous) seeds and non- endospermic (exalbuminous) seeds.



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4. In soil, why do very deeply sown seeds fail to germinate?



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5. Why do we say .maize grain. instead of maize fruit or maize seed?



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6. State the functions of the following in a seed.

Seed coat



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7. State the functions of the following in a seed.

Cotyledons



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Topic 1 3 Marks Questions

1. Give appropriate biological / technical terms for the following:

The ripened ovule.



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2. Give appropriate biological / technical terms for the following:

A fruit with a protective layer formed by the fusion of fruit wall and seed coat.



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3. Give appropriate biological / technical terms for the following:

Root sheath that protects the radicle in a maize seed.



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4. Choose the ODD one out from the following terms given and name the CATEGORY to which the others belong :

Gram seed, Pea seed, Rice, Bean seed



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5. Choose the ODD one out from the following terms given and name the CATEGORY to which the others belong :

Tegmen, Testa, Stigma, Cotyledon, Radicle



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6. Choose the ODD one out from the following terms given and name the CATEGORY to which the others belong :

Androecium, Gynoecium, Calyx, Hypocotyl,
Style



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7. The part of embryo axis between plumule and cotyledonary node is called



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8. Name the following :

The layer of endosperm of maize, rich in

protein.



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9. Name a seed which has folded plumule leaves.



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10. Given below are sets of five terms each. Rewrite the terms in correct order in a logical sequence beginning with the term that is

underlined.

Seed, Endocarp, Seed coat, Mesocarp, Epicarp



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11. Given below are sets of five terms each.

Rewrite the terms in correct order in a logical sequence beginning with the term that is underlined.

Embryo, Zygote, 1st male gamete, Micropyle,

Egg cell.



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12. Given below are sets of five terms each. Rewrite the terms in correct order in a logical sequence beginning with the term that is underlined.

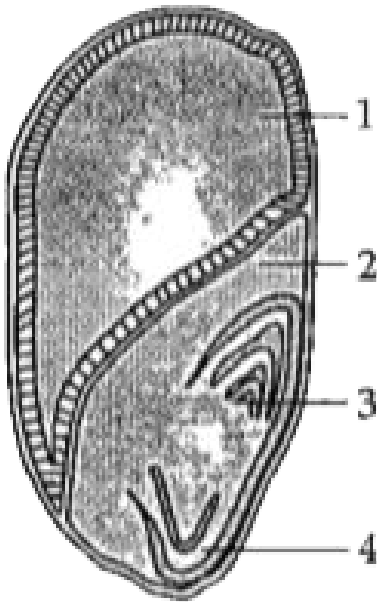
Fusion of gametes, Zygote, Allogamy, Seed, Embryo



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Topic 1 5 Marks Questions

1. Study the diagram given below and answer the questions that follow:

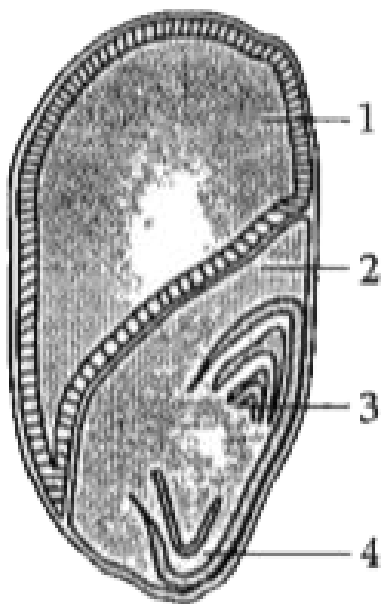


Name the structure shown and label its parts 1 and 2.



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2. Study the diagram given below and answer the questions that follow:

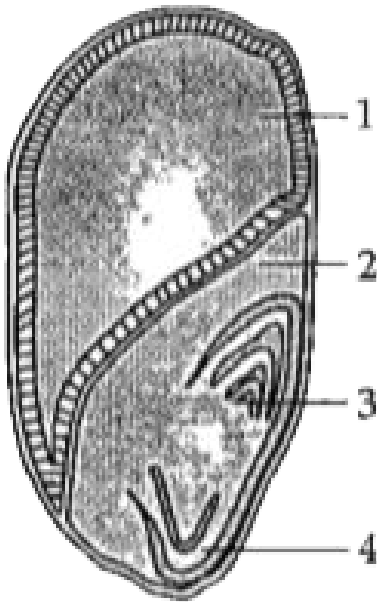


Is the given structure albuminous or non albuminous ? Give reason for your answer.



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3. Study the diagram given below and answer the questions that follow:



Name the protective coverings of part labelled 3 & 4.



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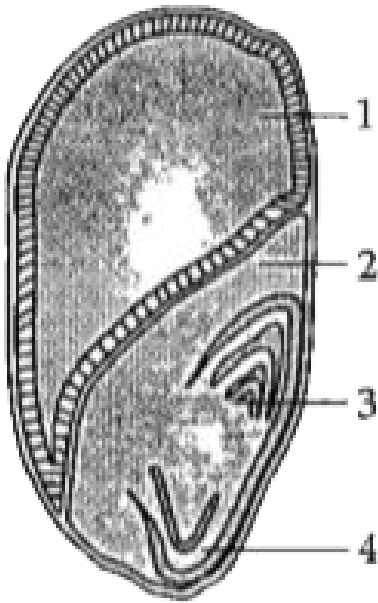
4. Study the diagram given below and answer the questions that follow:



Name the protein rich layer of endosperm.

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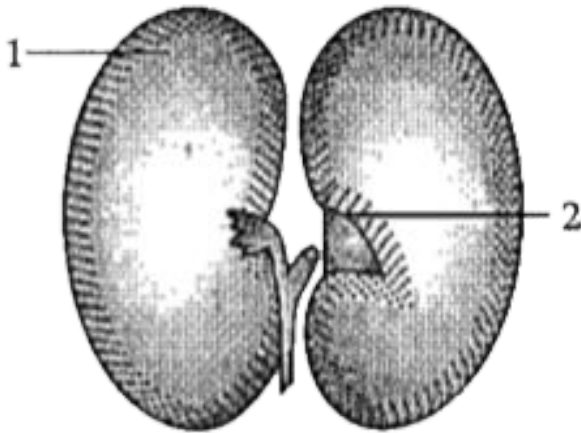
5. Study the diagram given below and answer the questions that follow:



Why is the given structure called a grain?

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6. Study the diagram given below and answer the questions that follow:

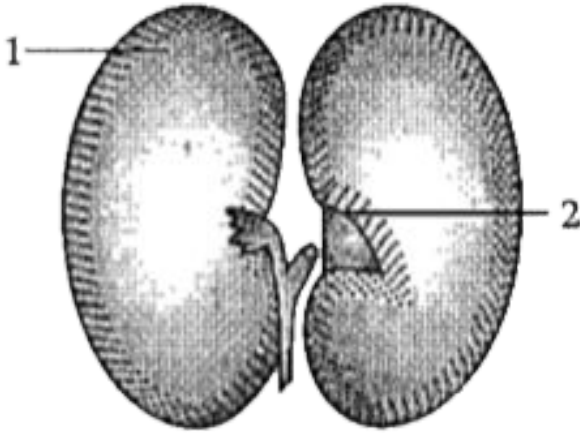


Name the structure given in the diagram.



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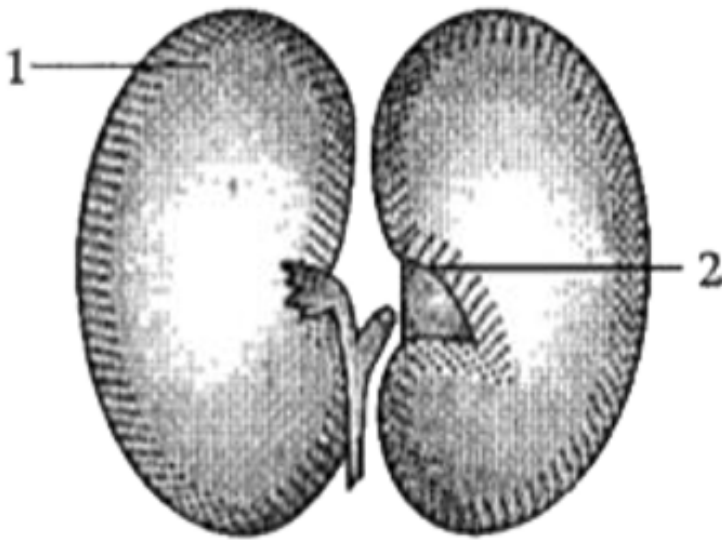
7. Study the diagram given below and answer the questions that follow:



Write the basic function of this structure.

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8. Study the diagram given below and answer the questions that follow:

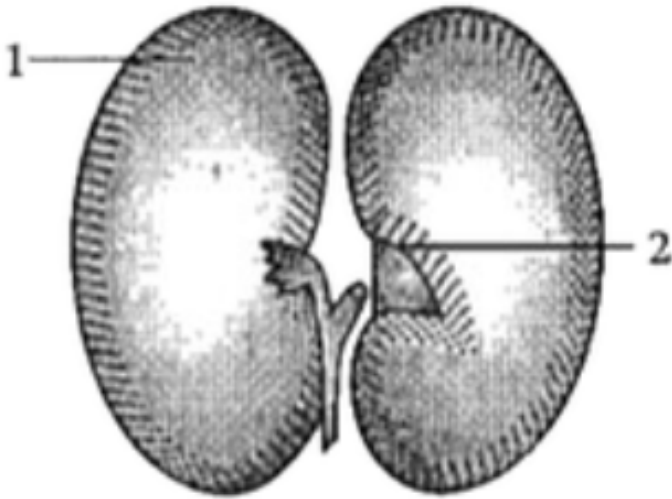


Label the parts numbered as 1 and 2.



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9. Study the diagram given below and answer the questions that follow:

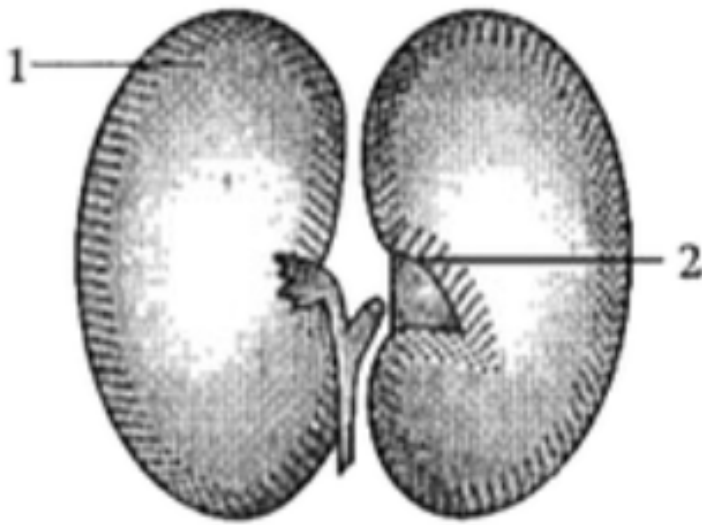


Which part of it give rise to the root of the plant?



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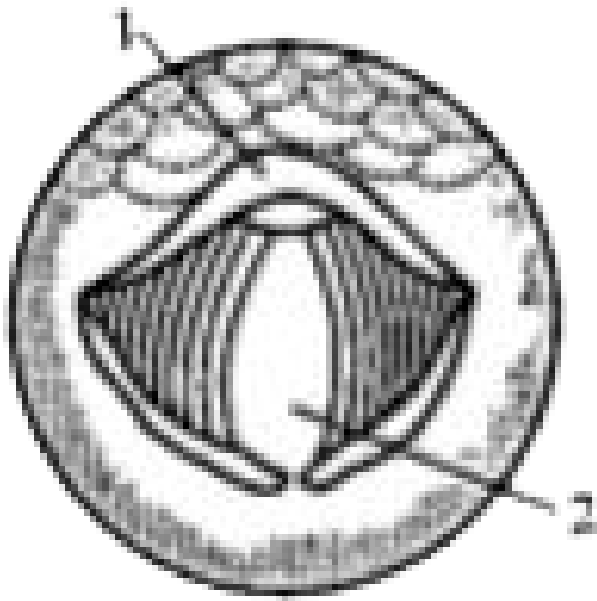
10. Study the diagram given below and answer the questions that follow:



State the upper leafy end of the axis lying between the cotyledons.

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11. Study the diagram given below and answer the questions that follow:



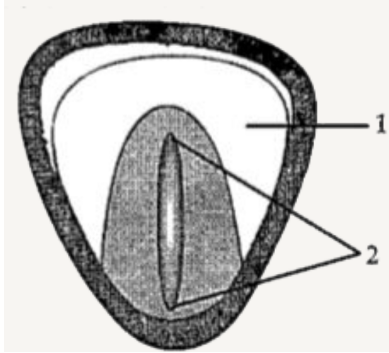
Name the structure shown in the diagram.

State in which part of the body it is present.



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12. Study the diagram given below and answer the questions that follow:



Write the basic function of this structure.



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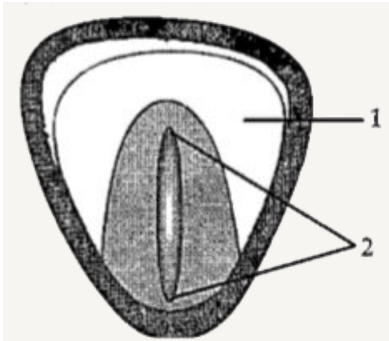
13. Study the diagram given below and answer the questions that follow:



Label the parts numbered as .1. and .2..

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14. Study the diagram given below and answer the questions that follow:

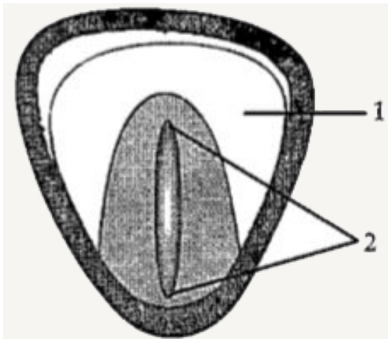


Name the protein containing layer found in this structure.



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15. Study the diagram given below and answer the questions that follow:



Name the food material stored in this structure.



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Topic 2 1 Mark Questions

1. Name any two plant which shows viviparous germination.



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2. Give an example of hypogeal germination



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3. Rewrite the terms in correct order in a logical sequence beginning with the term that is underlined.

Hypocotyl elongates, Hypocotyl forms loop above the soil, Seed coat bursts, Radicle grows downward, Epicotyl elongates.



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4. State the function of micropyle.



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5. Name a chemical used in experiments, which absorbs oxygen.



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Topic 2 2 Marks Questions

1. Differentiate between germination and vivipary.



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2. State difference between coleorhiza and coleoptile on basis of their functions and location.



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3. Why does an experiment need a control set-up?



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4. Explain the role of hypocotyls in epigeal germination.



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5. Differentiate between epigeal and hypogeal germination.



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6. The diagram given below shows three bean seeds placed at different levels . Answer the following questions :



What changes will you observe in the seeds A, B and C after a few days? Explain with suitable reasons.



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7. The diagram given below shows three bean seeds placed at different levels . Answer the following questions :



Name the part of the seed that provides nutrition for the growing seedling.

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8. The diagram given below shows three bean seeds placed at different levels . Answer the

following questions :



Draw a neat, labelled diagram showing the internal structure of a bean seed.



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9. The diagram given below shows three bean seeds placed at different levels . Answer the following questions :



What type of germination does a bean seed show?



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10. The diagram given below shows three bean seeds placed at different levels . Answer the following questions :



Mention the parts of a flower which form the fruit and seeds.



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11. Given below is a diagram depicting a physiological process in plants. Study the same and answer the following questions:

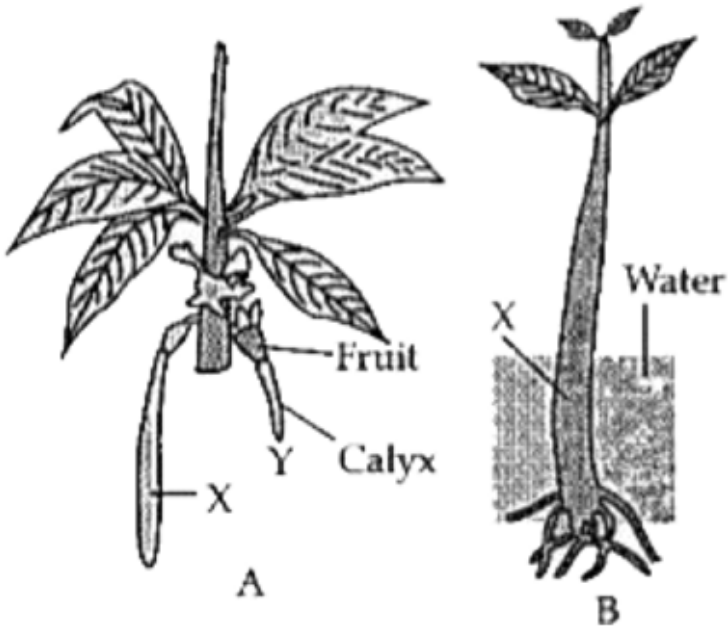


- (i) Name the process occurring in the diagram.
- (ii) Explain the process mentioned in part (i).

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12. Given below is a diagram depicting a physiological process in plants. Study the

same and answer the following questions:

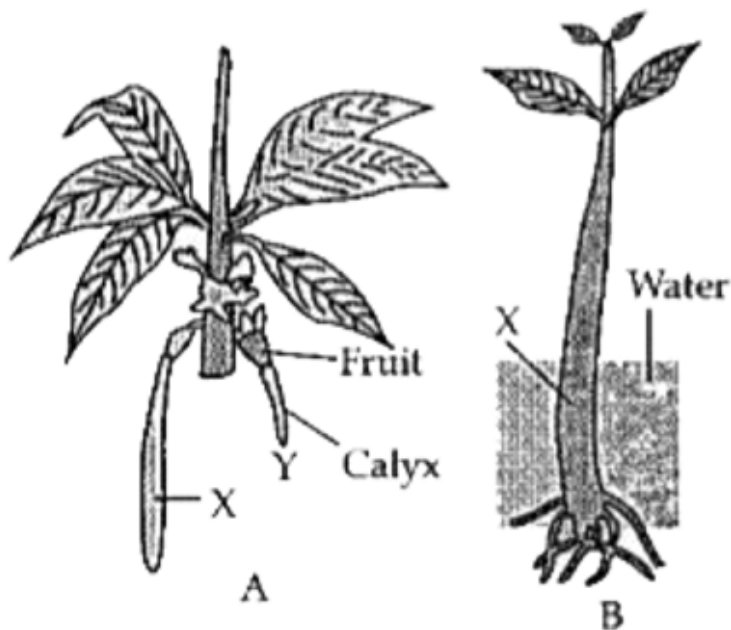


Label the part .X. and .Y..



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13. Given below is a diagram depicting a physiological process in plants. Study the same and answer the following questions:

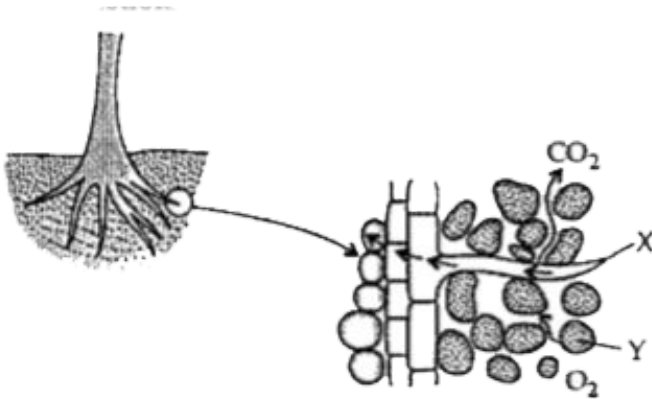


Write two examples of plants showing this process.



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14. Given below is a diagram depicting a physiological process in plants. Study the same and answer the following questions :



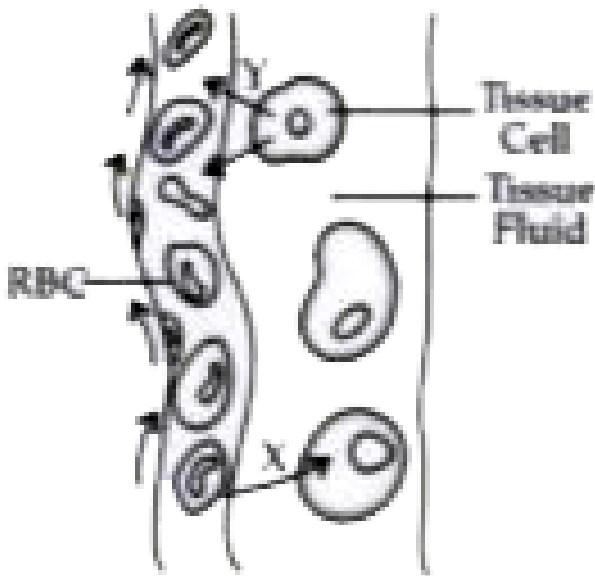
Define the part X.



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15. Given below is a diagram depicting a physiological process in man.

Study the same and answer the following questions :

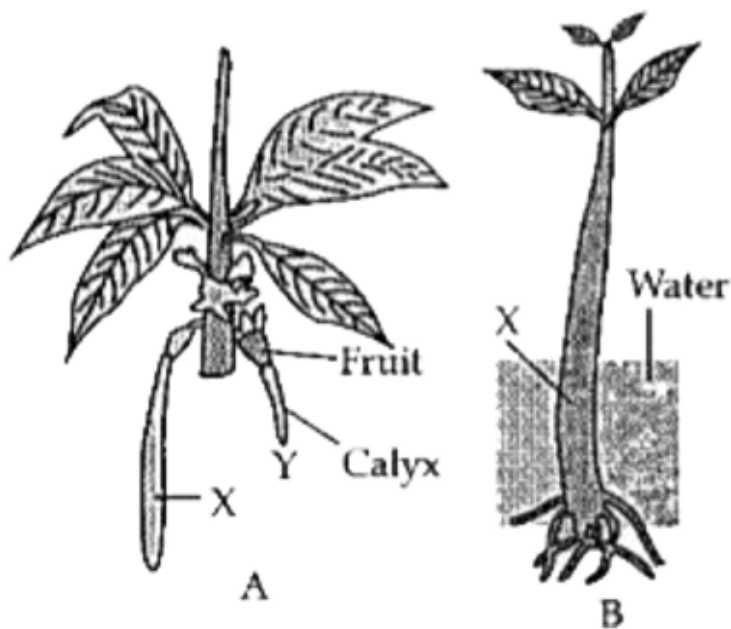


Name the process occurring in the diagram.

Explain the process mentioned in part (i).

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16. Given below is a diagram depicting a physiological process in plants. Study the same and answer the following questions:



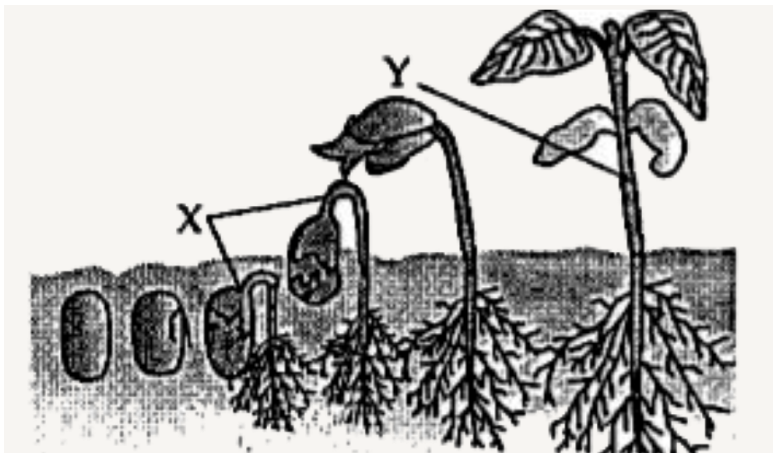
Label the part .X. and .Y..



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17. Given below is a diagram depicting a physiological process in plants.

Study the same and answer the following questions :



Write two examples of plants showing this process.



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18. Given below is a diagram depicting a physiological process in plants.

Study the same and answer the following questions :

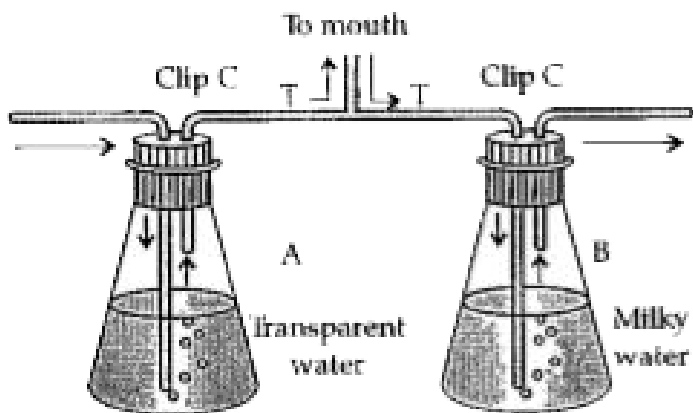


Define the part Y.



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19. Study the experimental set-up given below and answer the following questions:



What is the aim of the experiment shown above ?



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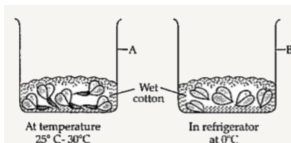
20. Study the experimental set given below and answer the following questions :



What is your observation after a few days for beakers .A. and .B. ?

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21. Study the experimental set given below and answer the following questions :



Explain the role of temperature in this experiment.



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22. Study the experimental set given below and answer the following questions :

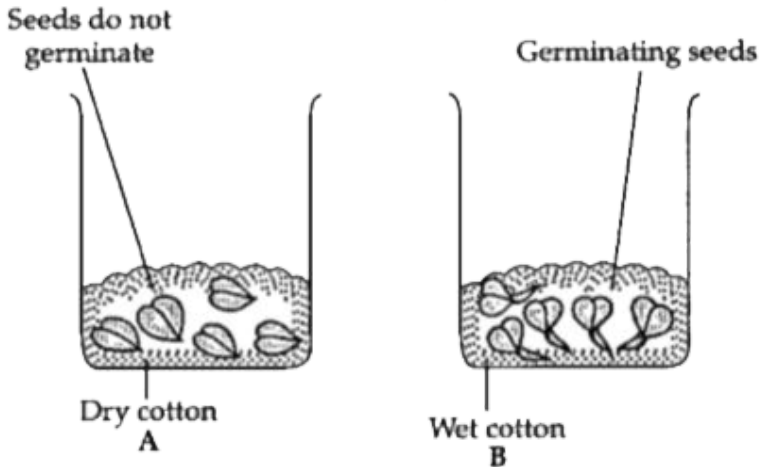


Why is wet cotton kept inside the beaker ?



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23. Study the experimental set-up given below and answer the following questions :

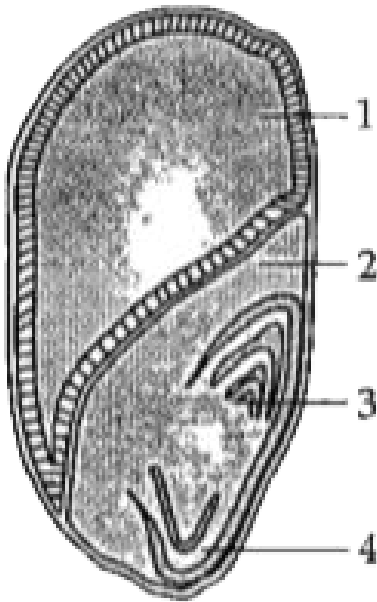


Which is the control set up and why?



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24. Study the diagram given below and answer the questions that follow:



Name the structure shown and label its parts 1 and 2.



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25. The given diagram represents the process of germination of seed. Study the diagram given below and answer the questions that follows :



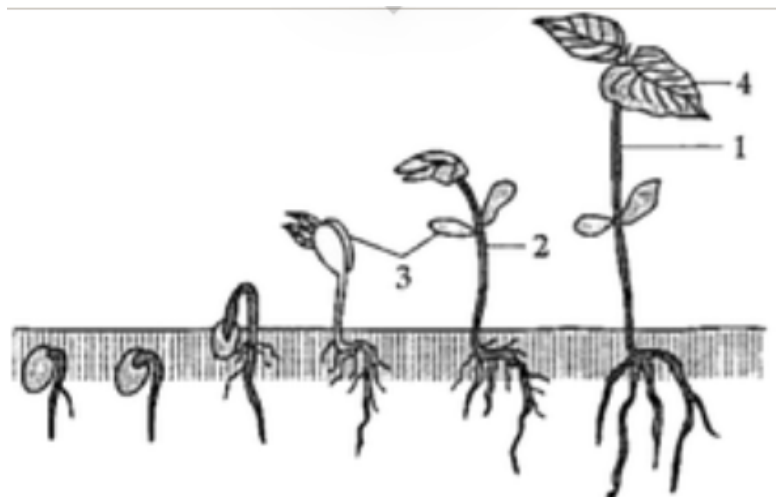
What happens when seed absorbs moisture ?



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26. The given diagram represents the process of germination of seed. Study the diagram of germination of seed. Study the diagram

given below and answer the questions that follows :



State the purpose of parts labelled as 3 & 4.

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27. The given diagram represents the process of germination of seed. Study the diagram

given below and answer the questions that follows :



Name the type of seed germination.



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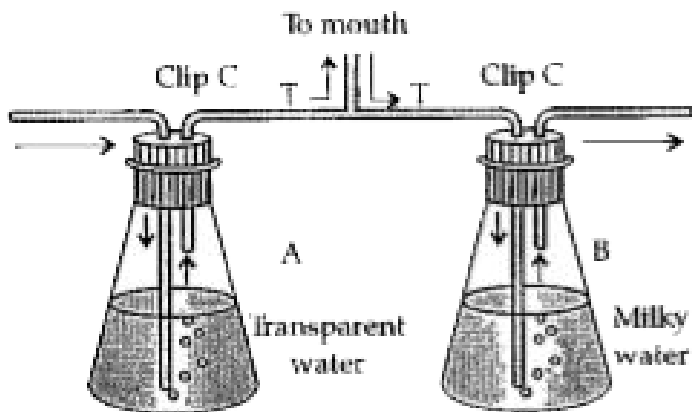
28. The given diagram represents the process of germination of seed. Study the diagram given below and answer the questions that follows :



State two examples of plants showing this phenomenon

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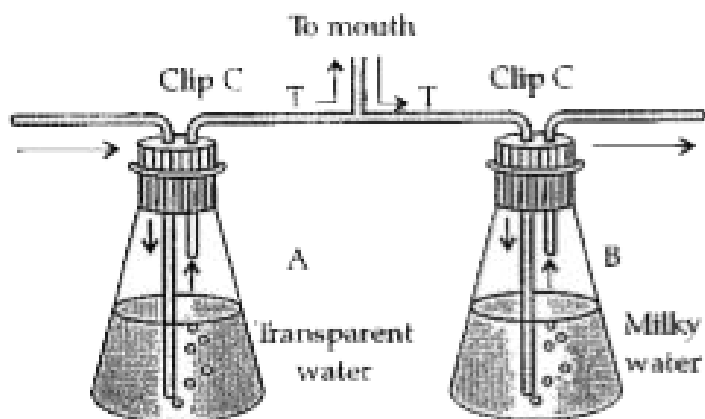
29. Study the experimental set-up given below and answer the following questions:



What is the aim of the experiment shown above ?

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30. Study the experimental set-up given below and answer the following questions:



What is your observation for flasks .A. and .B.?



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31. Study the experimental set-up given below and answer the following questions :



Explain the role of wet cotton in this experiment



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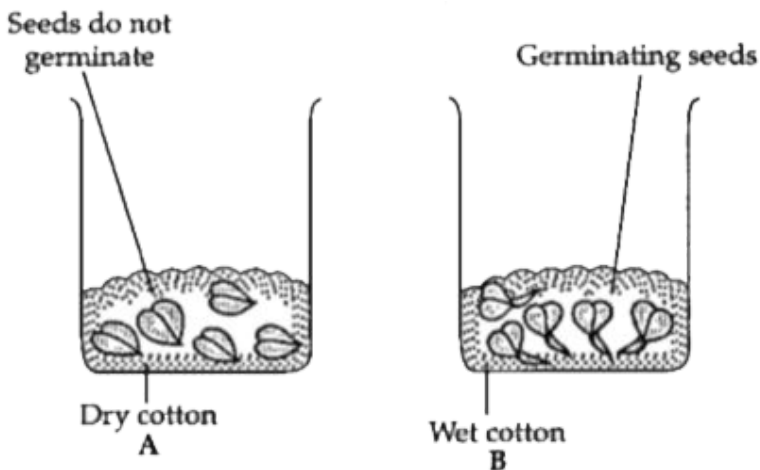
32. Study the experimental set-up given below and answer the following questions :



Does temperature can affect this experiment?

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33. Study the experimental set-up given below and answer the following questions :



Which is the control set up and why?



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Topic 2 3 Marks Questions

1. Give appropriate biological / technical terms for the following:

The process of formation of a seedling from the embryo



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2. Give appropriate biological / technical terms for the following:

Upper leafy part of the embryo axis that gives rise to the shoot of the plant.



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3. Give appropriate biological / technical terms for the following:

Part of the plumule above the embryonic axis of the seed.





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4. What is double fertilisation?



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5. State major difference between maize grain and bean seed.



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