BIOLOGY

BOOKS - EVERGREEN BIOLOGY (ENGLISH)

SELF ASSESSMENT PAPER 5

Section I

1. Define the following:

The mineral element essential for the clotting

of blood

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2. The type of gene, which in the presence of contrasting allele, is not expressed.

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3. Name the The internal layer of the eye which prevents reflection of light.

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4. Name the structural and functional units of the kidney.

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5. Name the following :

That part of the chloroplast where the light reaction of photosynthesis takes place.

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6. The statement given below is incorrect. Rewrite the correct statement by changing the underlined words of the statement

Gyri and Sulci are the folds of Cerebellum.

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7. State whether the following statements are true or false. If false, rewrite the correct form of the statement by changing the first or last word only.

Testosterone is an androgen.

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8. State whether the following statements are true or false. Rewrite the false statements in their correct form

Photolysis is the process of splitting of water molecules in the presence of grana and temperature.

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9. State whether the following statements are true or false. If false, write the correct form of the statement by changing the first or last word only.

Dilation of pupil is brought about by the sympathetic nervous system.

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10. Chromosomes other than the pair of sex chromosome are called alleles.

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11. State the exact location of the following:

Corpus callosum

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12. What are the functions of the following:

Prostate gland

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13. Give the exact location of the following :

Thyroid gland

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14. Give the exact location and one function of the following:

Seminiferous tubule.

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15. State main functions of :

Give the exact location of Mitral valve.

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16. In mitosis, all chromosomes become aligned at the spindle equator at the end of anaphase

A. Metaphase

B. Anaphase

C. Prophase

D. Telophase

Answer:

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17. The ventral root of spinal cord carries the

A. Motor neuron

B. Sensory neuron

C. Intermediate neuron

D. Association neuron

Answer:

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18. Choose the correct answer from the given four options :

A plant is kept in a dark cupboard for about 48 hours before conducting any experiment on photosynthesis to

A. Remove starch from the plant.

B. Ensure that starch is not translocated from the leaves.

C. Remove chlorophyll from the leaf of the plant.

D. Remove starch from the experimental leaf.

Answer:

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19. Choose the correct answer from the given four options :

NADP is expanded as

A. Nicotinamide Adenosine Dinucleoside Phosphate

B. Nicotinamide Adenine Dinucleotide Phosphate

C. Nicotinamide Adenine Dinucleolus Phosphate

D. Nicotinamide Adenosine Dinucleolus Phosphate

Answer:

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20. Choose the correct answer to the given statement from the four choices given below the statement:

A reflex arc in man is best described as movement of stimuli from:

A. Receptor cell, sensory neuron, relaying neuron, effector muscles

B. Receptor cell, efferent nerve, relaying neuron, muscles of the body

C. Receptor cell, spinal cord, motor neuron, relaying neuron

D. Receptor cell, synapse, motor neuron, relaying neuron

Answer:

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21. Give biological/ technical terms for the following:

The condition in which a pair of chromosomes carry similar alleles of a particular character.

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22. Oxygen evolved during photosynthesis comes from

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23. AFLP stands for

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24. Which of the following chambers of the heart has the thickest muscular wall ?

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25. The duct which leads from the epididymis to the urethra is the _____

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26. Differentiate between the following:

Exocrine and Endocrine glands.

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27. Explain the following terms :

Monohybrid cross

Gene

Phenotype.

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28. Explain the following terms :

Parturition

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29. Explain the following term :

Diffusion

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30. Define the following terms:

Alleles

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31. Give the exact location and one function of the following:

Seminiferous tubule.

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32. Give the specific function of:

(i) Centrosome

(ii) Stoma

(iii) Transpiration

(iv) Ureter

(v) Vitreous humour

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33. Give the specific function of the following structures found in the body of plants/animals.

Xylem

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34. What are the functions of the following:

Seminal Vesicles

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35. Give the specific function of the following structures found in the body of plants/animals.

Meninges

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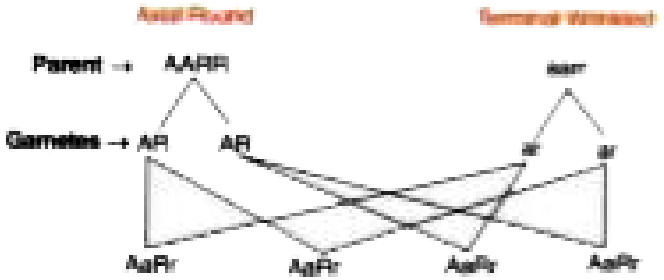
36. Given below is a schematic diagram showing Mendel's Experiment on sweet pea plants having axial flowers with round seeds (AARR) and Terminal flowers with wrinkled seeds (aarr). Study the same and answer the questions that follow :



Give the phenotype of F_1 progeny.

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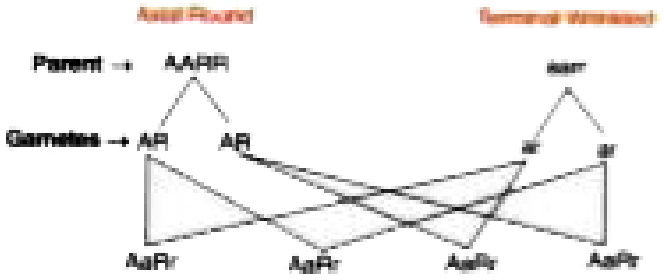

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Watch Video Solution

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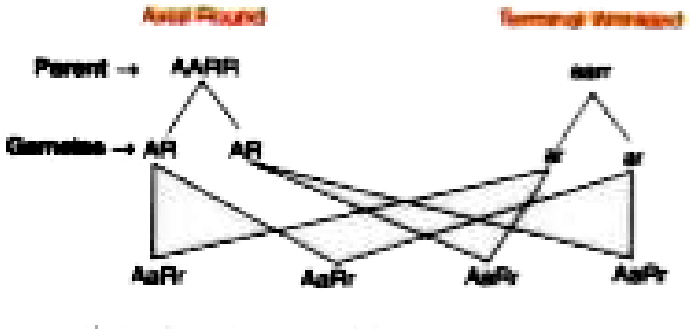

Give the phenotypic ratio of F_2 progeny.

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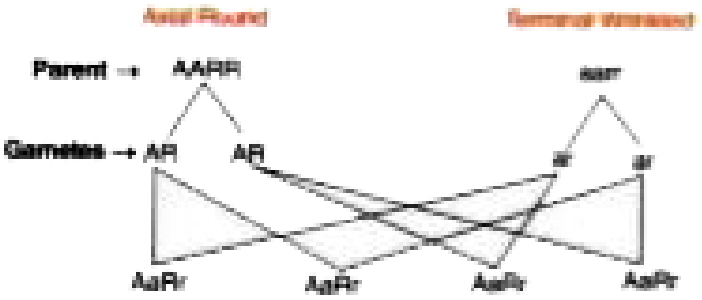
39. Given below is a schematic diagram showing Mendel's Experiment on sweet pea plants having axial flowers with round seeds (AARR) and Terminal flowers with wrinkled seeds (aarr). Study the same and answer the questions that follow :



Name and explain the law induced by Mendel on the basis of the above observation.

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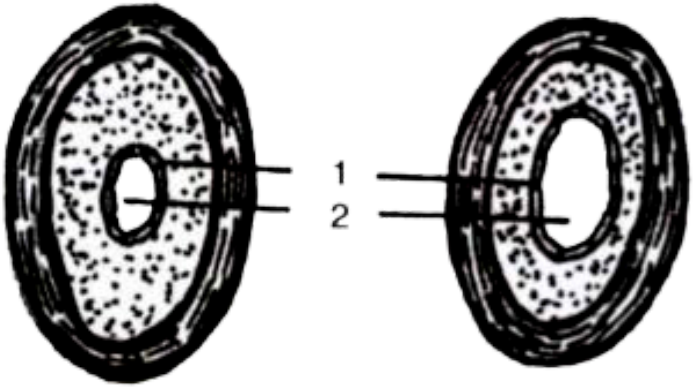
Section Ii

1. The diagrams given below show the cross-section of two kinds of blood vessels :



Name the parts numbered 1 and 2

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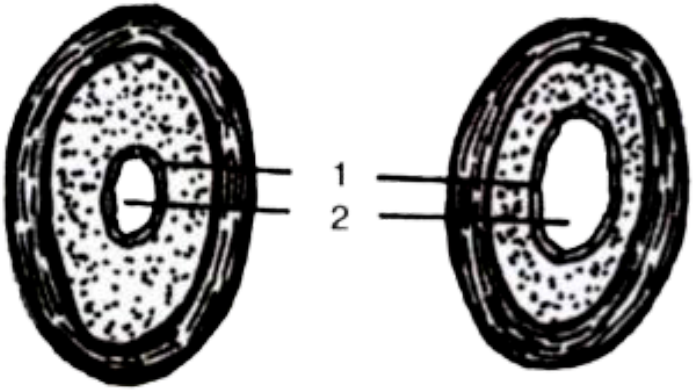
2. The diagrams given below show the cross-section of two kinds of blood vessels :



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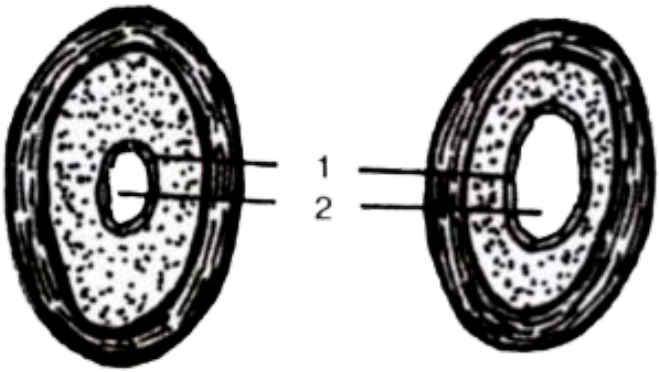
Watch Video Solution

3. The diagrams given below show the cross-section of two kinds of blood vessels :



When are the sounds "LUBB" and "DUP produced during a heartbeat?

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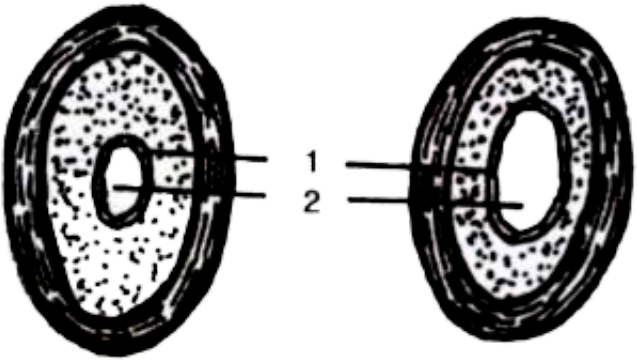
4. The diagrams given below show the cross-section of two kinds of blood vessels :



Name the blood vessel that

(1) begins and ends in capillaries

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5. Classify the following actions as simple reflex or conditioned reflex :

Playing a guitar.

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6. Classify the following actions as simple reflex or conditioned reflex :

Removing your hand suddenly when pricked by a thorn.

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7. Classify the following actions as simple reflex or conditioned reflex :

Applying sudden brakes when a dog crosses the path.

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8. Classify the following actions as simple reflex or conditioned reflex :

Blinking of eyelids on exposure to light.

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9. Classify the following actions as simple reflex or conditioned reflex :

Tying one's shoe lace.

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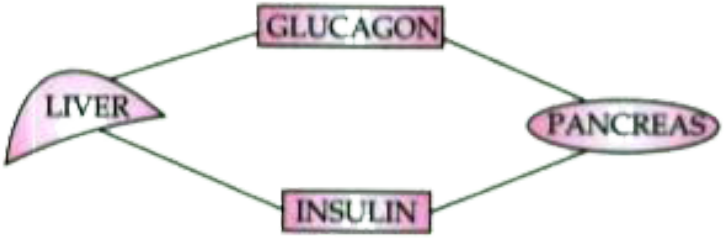
10. Study the diagram given below and then answer the questions that follow :



State the main function of (1) glucagon, (2) insulin.

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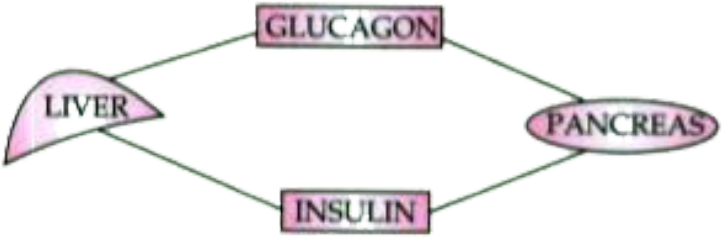
11. Study the diagram given below and then answer the questions that follow :



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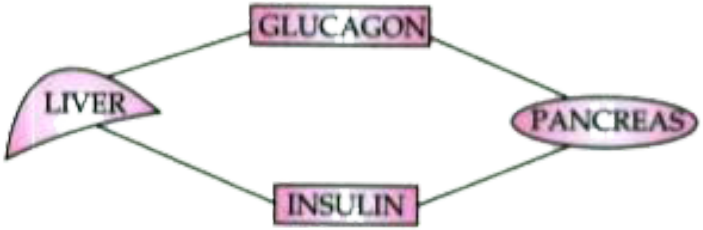

Why is the pancreas referred to as an exoendocrine gland ?

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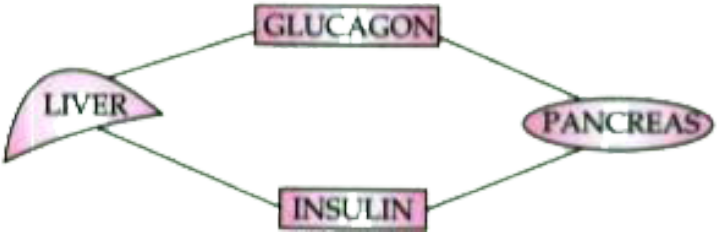
13. Study the diagram given below and then answer the questions that follow :



Why is insulin not given orally but is injected into the body ?

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

What is the technical term for the cells of the pancreas that produce endocrine hormones ?

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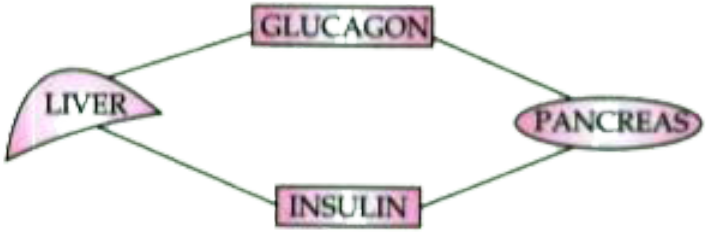
15. Study the diagram given below and then answer the questions that follow :



Where in the body is the pancreas located ?

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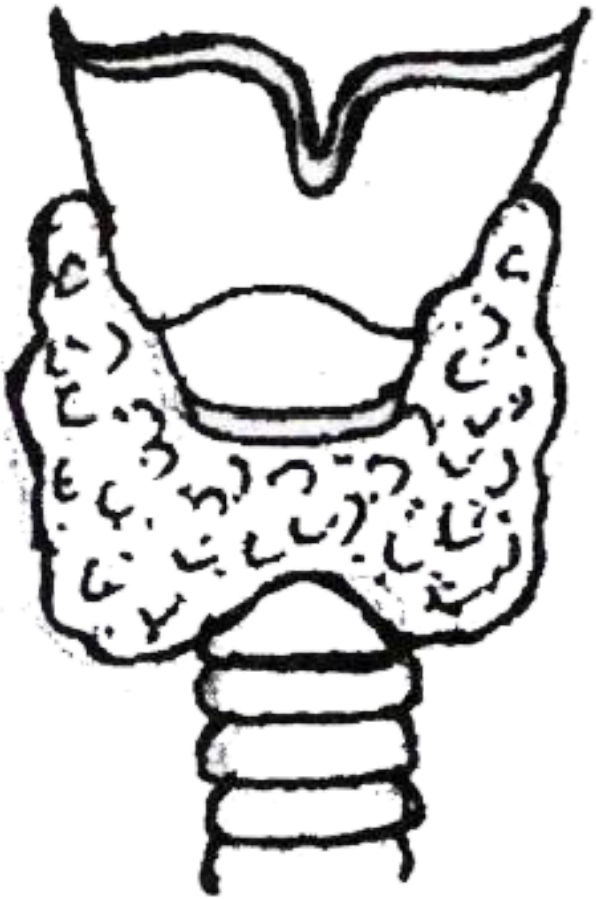
16. The diagram given below represents the location and structure of an endocrine gland. Study the same and answer the questions that follow:



(i) Name the endocrine gland shown in the diagram.

(ii) Name the secretion of the gland which regulates basal metabolism

(iii) Name the mineral element required for the synthesis of the above mentioned hormone.

(iv) Name the disease caused due to undersecretion of the above mentioned hormone in children.

(v) Name the disease caused due to hypersecretion of the above mentioned hormone .

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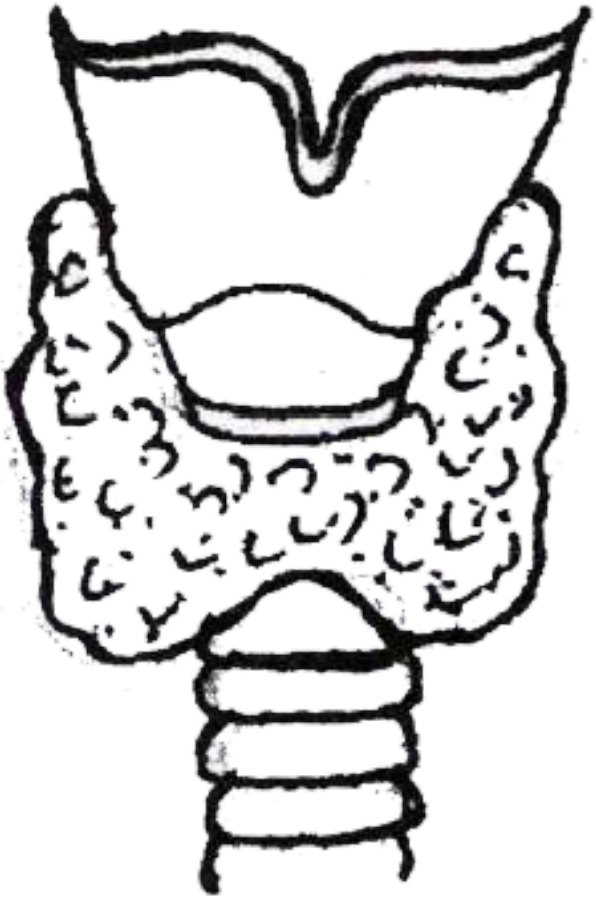
17. The diagram given below represents the location and structure of an endocrine gland. Study the same and answer the questions that follow:



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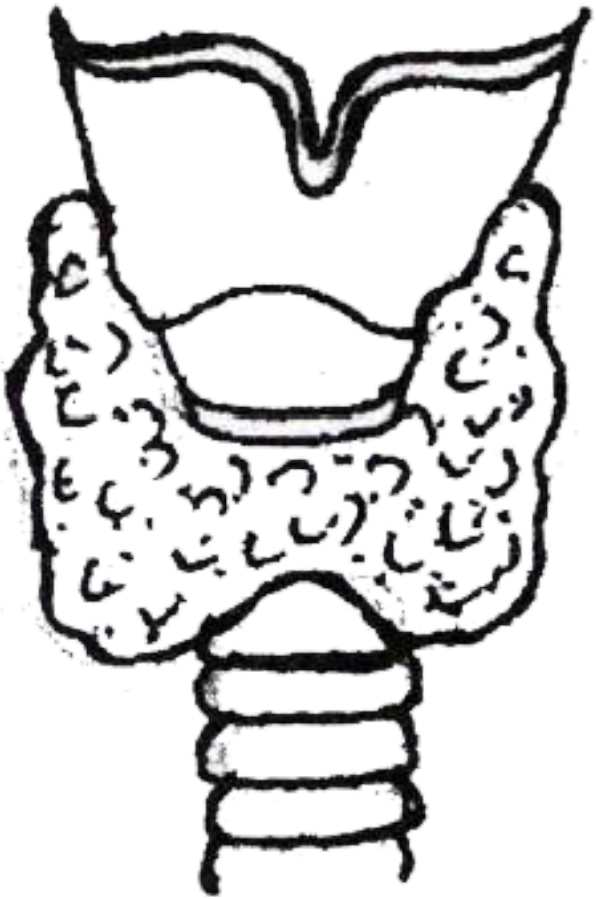

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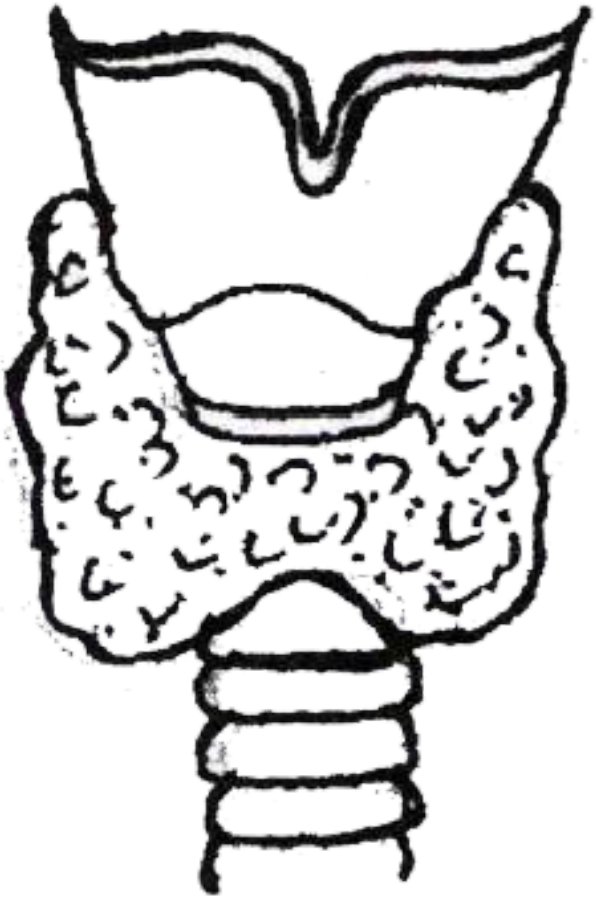

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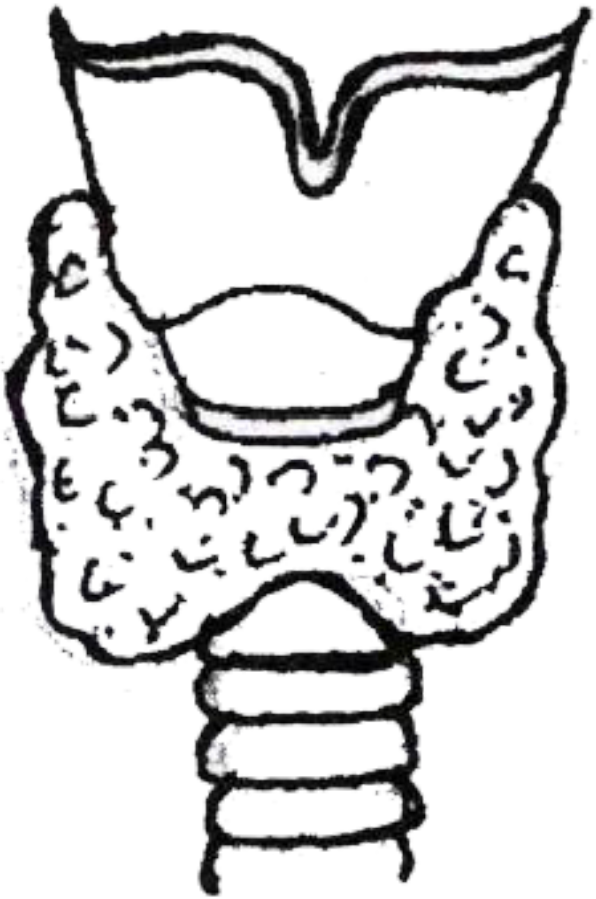

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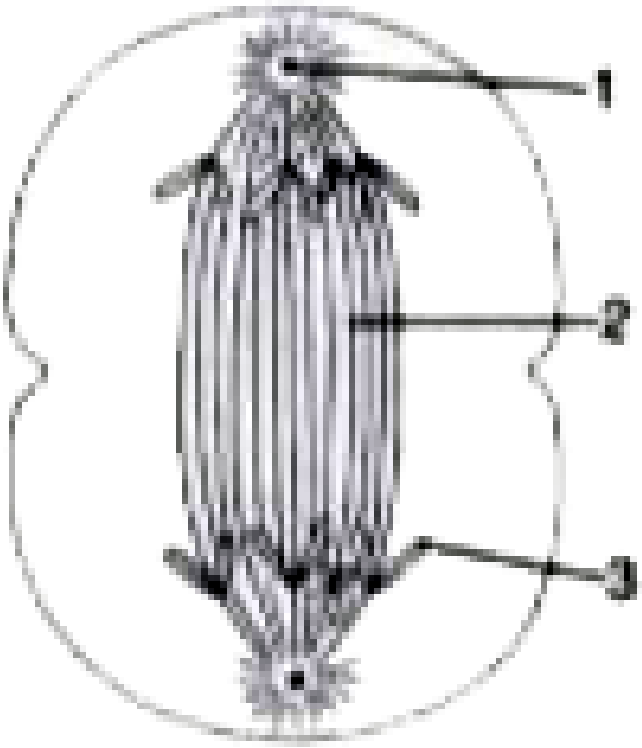
21. The diagram given below represents a stage during cell division. Study the same and then answer the questions that follow :



Identify the above stage and give a reason to support your answer.

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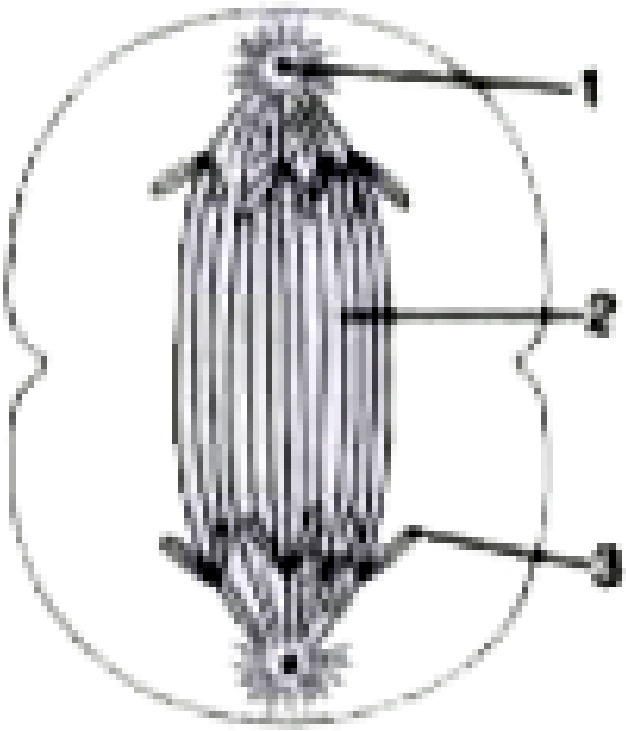
22. The diagram given below represents a stage during cell division. Study the same and then answer the questions that follow :



Name the parts labelled 1, 2 and 3.

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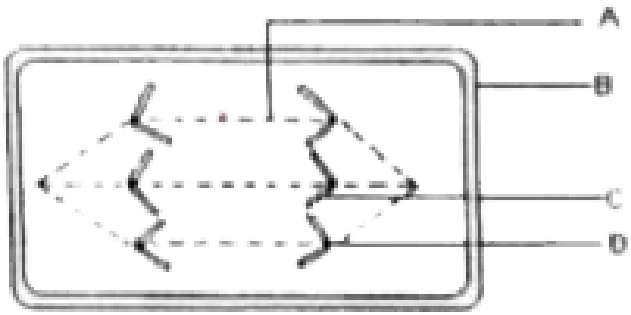
23. The diagram given below represents a stage in cell division. Study the same and answer the questions that follows:



What is the unique feature observed in this stage?

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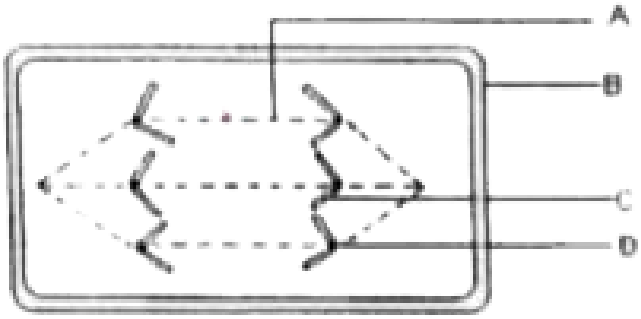
24. The diagram given below represents a stage in cell division. Study the same and answer the questions that follows:



Where does this type of cell division usually occur?

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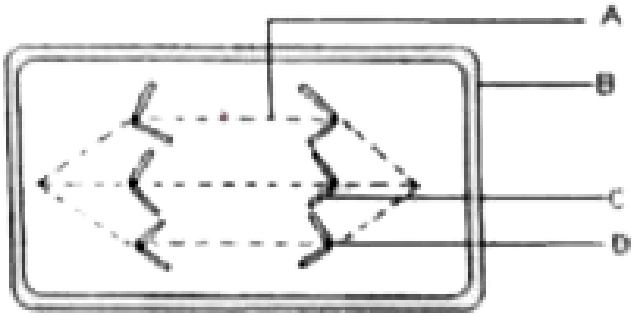
25. The diagram given below represents a stage in cell division. Study the same and answer the questions that follows:



How many daughter cells are formed from this type of cell division ?

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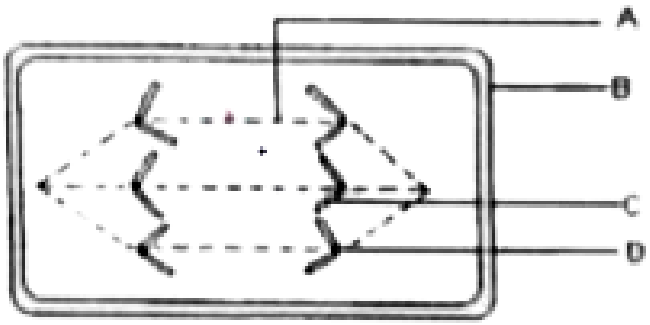
26. The diagram given below represents a stage in cell division. Study the same and answer the questions that follows:



Is the dividing cell shown a plant or an animal cell? Give a reason to support your answer.

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27. Name the hormone responsible for the following functions

Increase in heartbeat.

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28. Name the hormone responsible for the following functions:

Maintains glucose level in the blood.

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29. Name the hormone responsible for the following functions

Converting glycogen to glucose

Watch Video Solution

30. Name the hormone responsible for the following functions

Regulates basal metabolism.

Watch Video Solution

31. Name the hormone responsible for the following functions

Ossification of bones.

Watch Video Solution

32. Name the hormone responsible for the following functions

Prepares the body during emergency.

Watch Video Solution

33. Name the hormone responsible for the following functions

Responsible for normal growth of the whole body.

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34. Name the hormone responsible for the following functions

Regulates the functioning of the male and female reproductive organs.

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35. Name the hormone responsible for the following functions

Increased reabsorption of water in the kidneys.

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36. Name the hormone responsible for the following functions

Increased blood supply to muscles.

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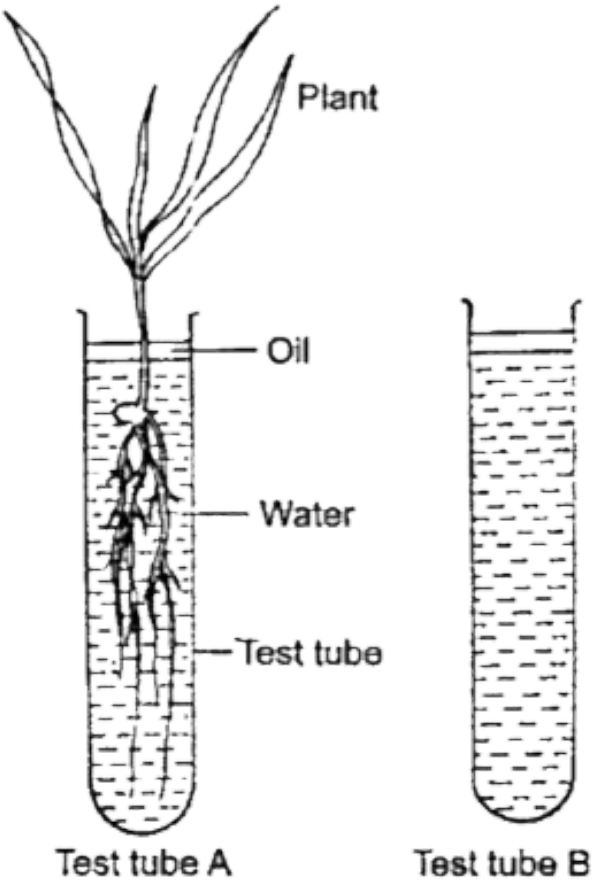
37. Study the set-up given alongside and answer the questions given below:



Which physiological process does this setup of experiment show?

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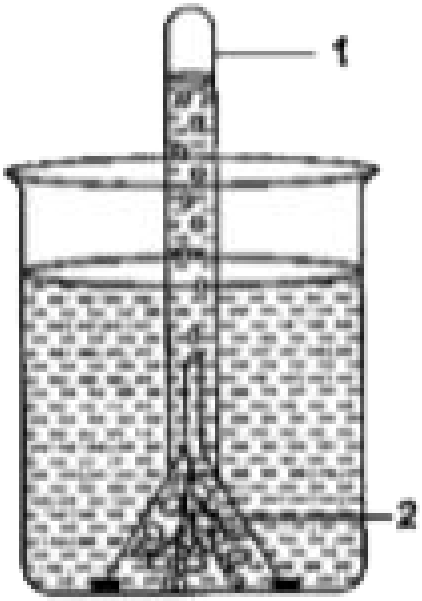
38. The following diagram demonstrates a physiological process taking place in green plants. The whole set up was placed in bright sunlight for several hours. Study the diagram and answer the questions that follow:



Explain the physiological process mentioned in (i) above.

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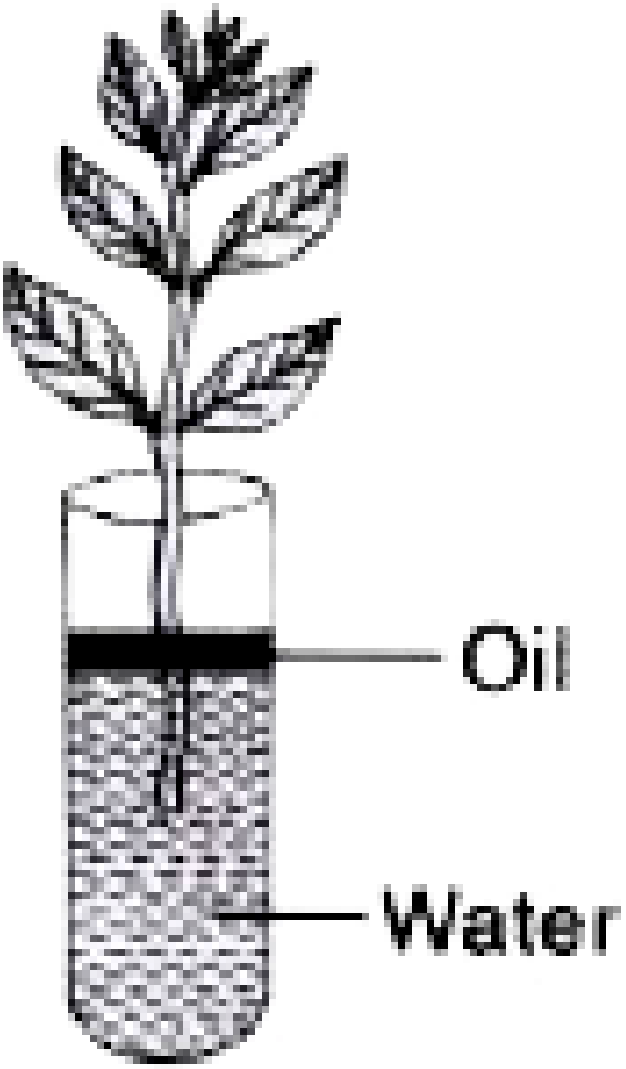
39. Study the diagram given below and answer the questions that follow :



Why is oil placed over water

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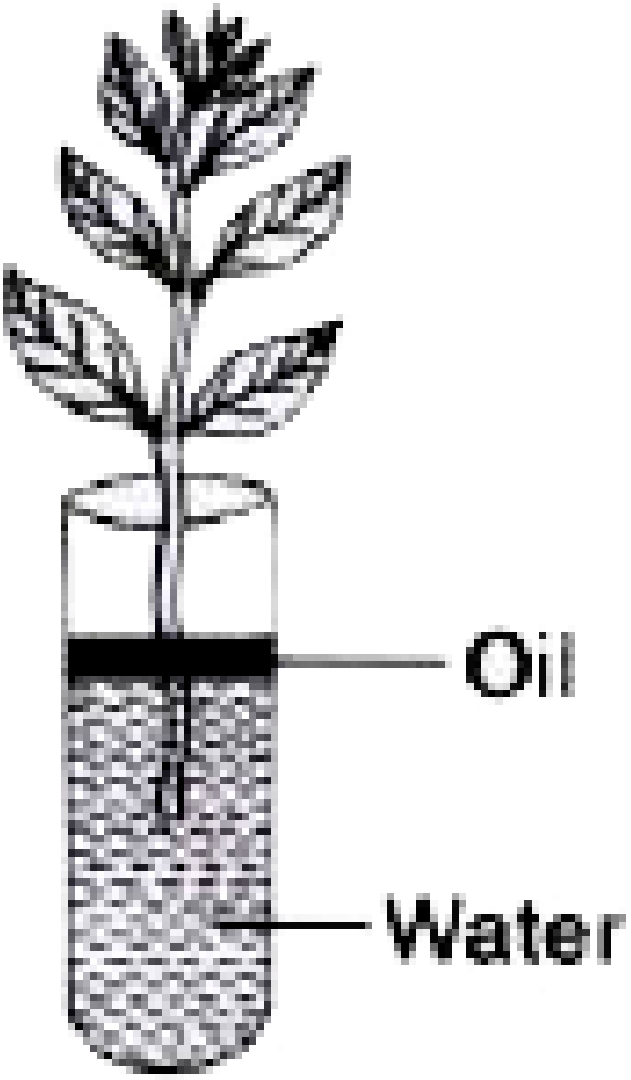
40. Study the diagram given below and answer the questions that follow :



What do we observe with regard to the level of water when this set-up is placed in (1) bright sunlight (2) humid conditions (3) windy day

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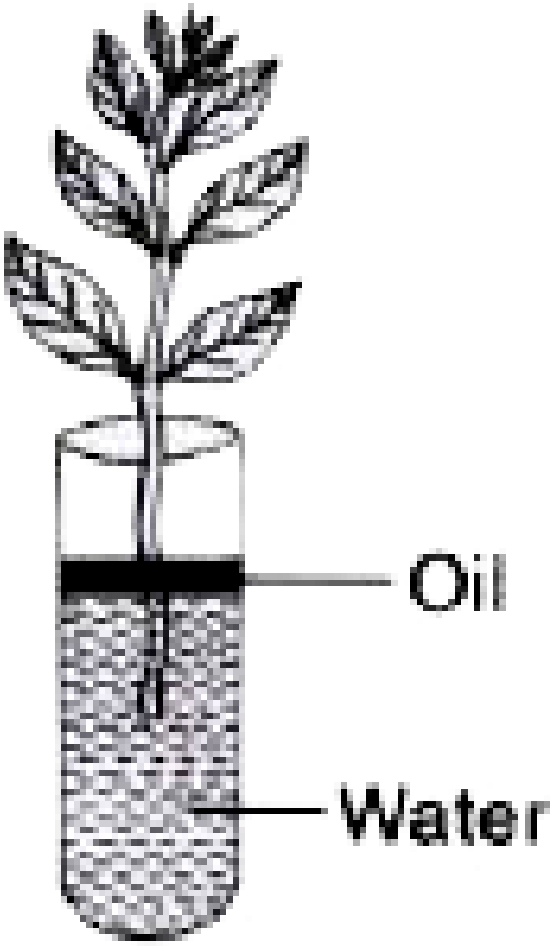
41. Study the diagram given below and answer the questions that follow :



Mention any three adaptations found in plants to overcome the process studied in the experiment. .

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42. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/ term:

Photosynthesis involves a light reaction and a dark reaction. During the light reaction, the chlorophyll present in the

_____ gets activated by absorbing light energy. This energy splits.

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43. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/term Photosynthesis involves light reaction and dark reaction. During light reaction, the chlorophyll present in the (1)..... gets activated by absorbing light energy This energy splits (2).....molecules to....(3).....and oxygen and releases two electrons. This process is called (4).... The (5).....ions are picked up by NADP to form (6).....The ADP is converted to (7)....This process is called (8).....During the dark phase, the compound produced at the

end of light reaction reacts with carbon dioxide to form (9).....This product is converted to starch. The process is called (10) .....

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44. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/ term:

Photosynthesis involves a light reaction and a dark reaction. During the light reaction, the chlorophyll present in the

_____ gets activated by absorbing light energy. This energy splits.

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45. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/ term:

Photosynthesis involves a light reaction and a dark reaction. During the light reaction, the chlorophyll present in the

_____ gets activated by absorbing light energy. This energy splits.

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46. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/ term:

Photosynthesis involves a light reaction and a dark reaction. During the light reaction, the chlorophyll present in the

_____ ions are picked up by NADP to form

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47. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/ term:

Photosynthesis involves a light reaction and a dark reaction. During the light reaction, the chlorophyll present in the

_____ The ADP is converted at the end of the light reaction reacts with carbon dioxide to from

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48. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/term Photosynthesis involves light reaction and dark reaction. During light reaction, the chlorophyll present in the (1)..... gets activated by absorbing light energy This energy splits (2).....molecules to....(3).....and oxygen and releases two electrons. This process is called (4).... The (5).....ions are picked up by NADP to form (6).....The ADP is converted to (7)....This process is called (8).....During the

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dioxide to form (9).....This product is converted to starch. The process is called (10) .....

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51. Complete the following by filling in the blanks numbered 1 to 10 with the appropriate word/term Photosynthesis involves light reaction and dark reaction. During light reaction, the chlorophyll present in the (1)..... gets activated by absorbing light energy This energy splits (2).....molecules to....(3).....and

oxygen and releases two electrons. This process is called (4).... The (5).....ions are picked up by NADP to form (6).....The ADP is converted to (7)....This process is called (8).....During the dark phase, the compound produced at the end of light reaction reacts with carbon dioxide to form (9).....This product is converted to starch. The process is called (10) .....

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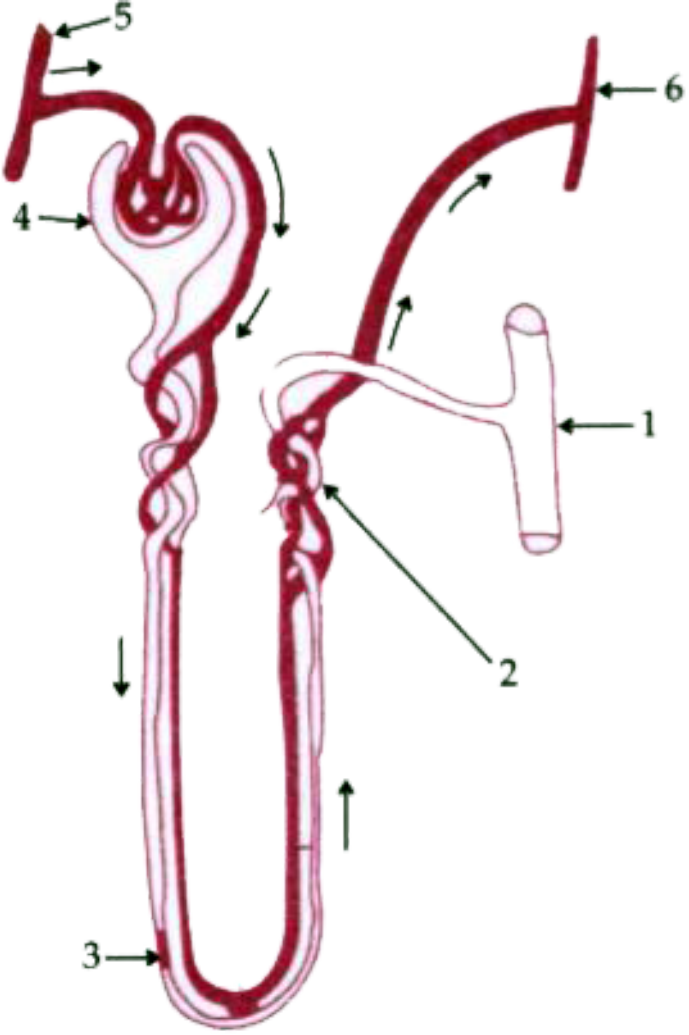
52. The given diagram represents a nephron and its blood supply. Study the diagram and answer the question :



Label parts 1, 2, 3 and 4.

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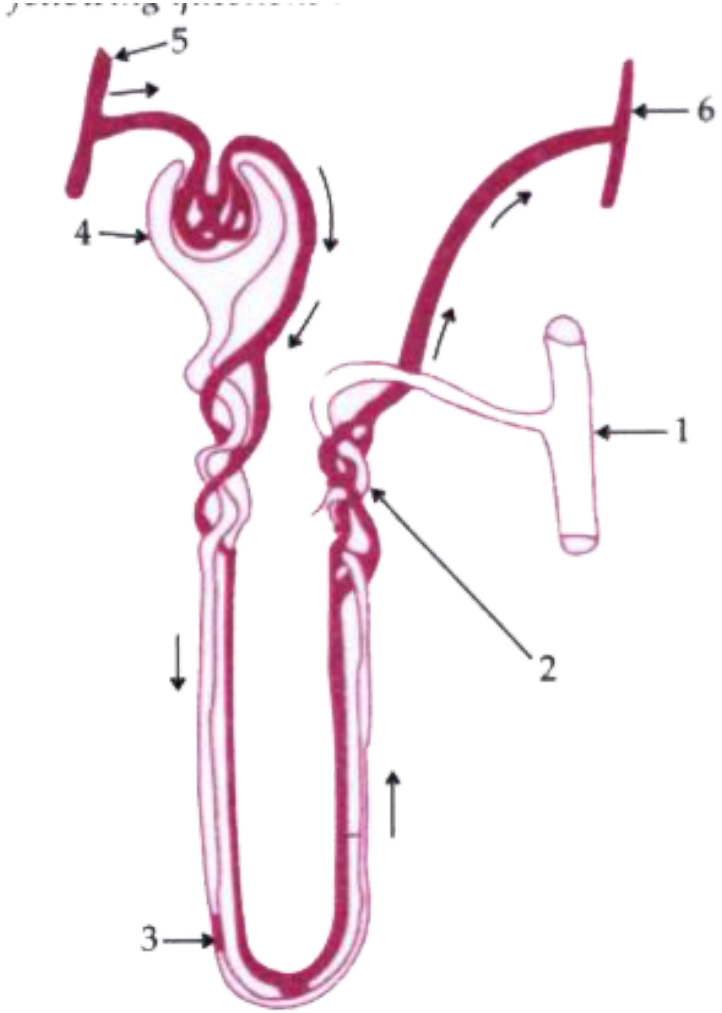
53. The given diagram represents a nephron and its blood supply. Study the diagram and answer the question :



State the reason for the high hydrostatic pressure in the glomerulus.

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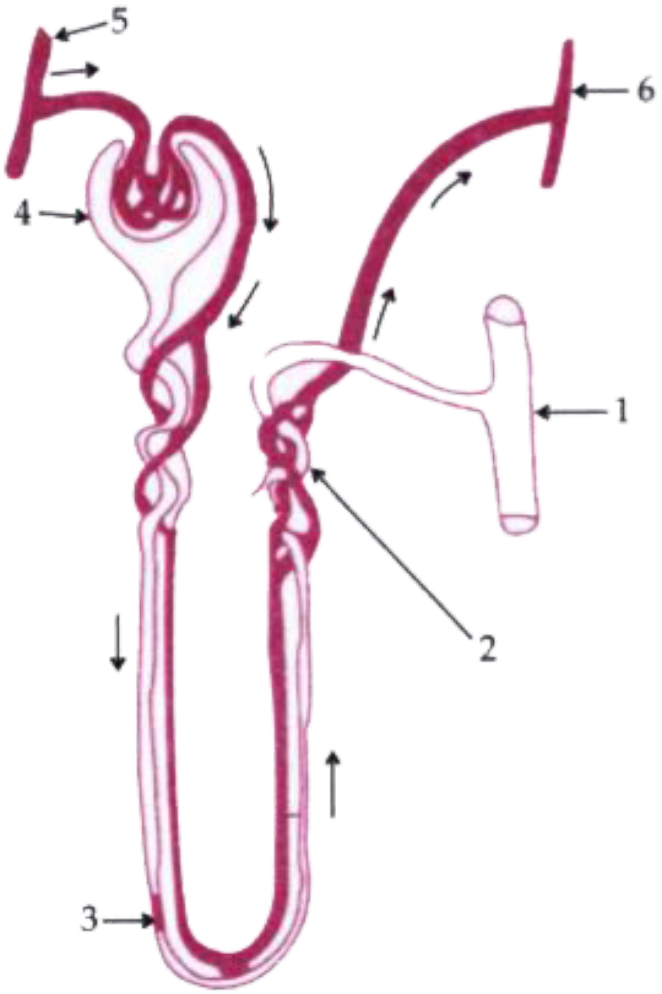
54. The given diagram represents a nephron and its blood supply. Study the diagram and answer the question :



Name the blood vessel which contains the least amount of urea in this diagram.

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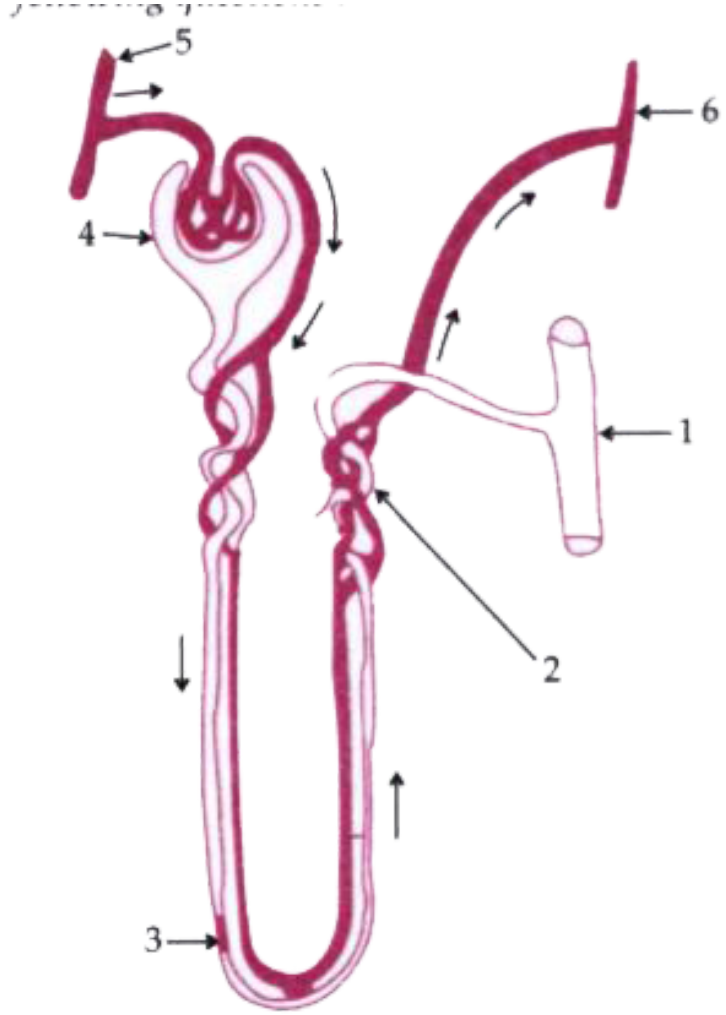
55. The given diagram represents a nephron and its blood supply. Study the diagram and answer the question :



Name the part of the nephron which lies in the renal medulla.

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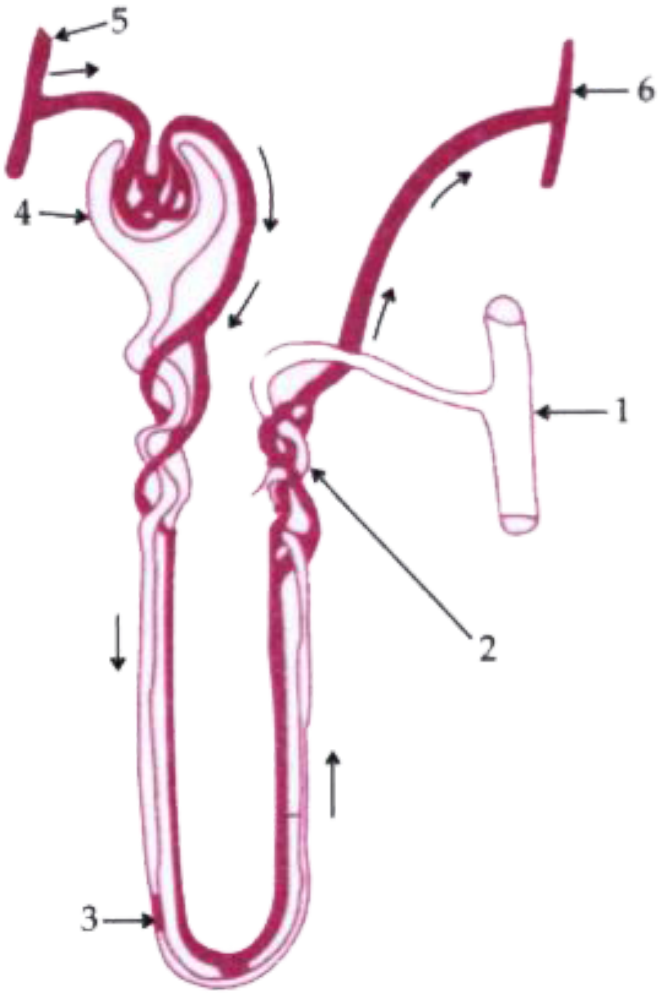
56. The given diagram represents a nephron and its blood supply. Study the diagram and answer the question :



Name the part of the nephron which lies in the renal medulla.

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57. Explain any two functions of cerebrospinal fluid in humans.

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58. State the main function of the following :

Ear ossicles

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59. Give the exact location and one function of Pinna.

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60. State the main function of the following:

Cuticle

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61. Give the exact location and one function of the following:

Thylakoids

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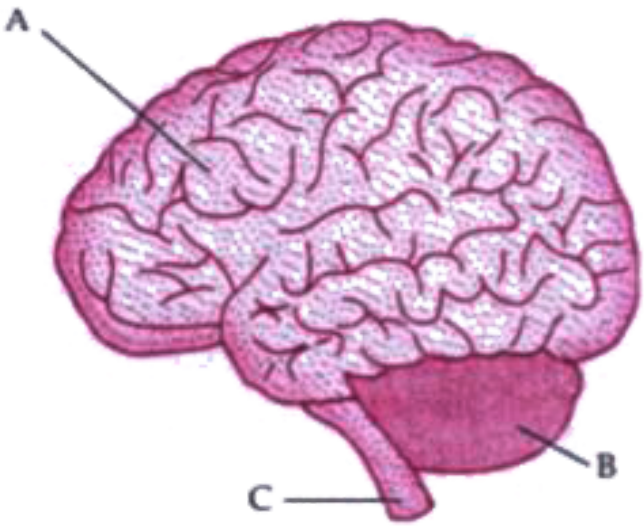
62. The diagram given below is an external view of the human brain. Study the same and answer the questions that follow :



Name the parts labelled A, B and C in the diagram.

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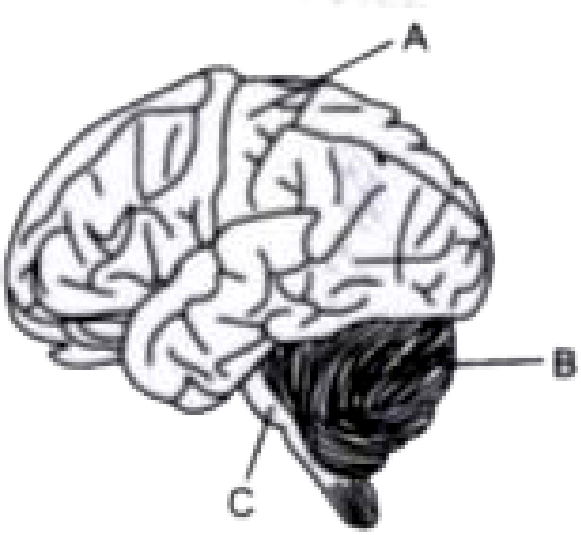
63. The diagram shows a section of the human brain. Answer the question which follow:



Give the main function of each of the parts A, B and C.

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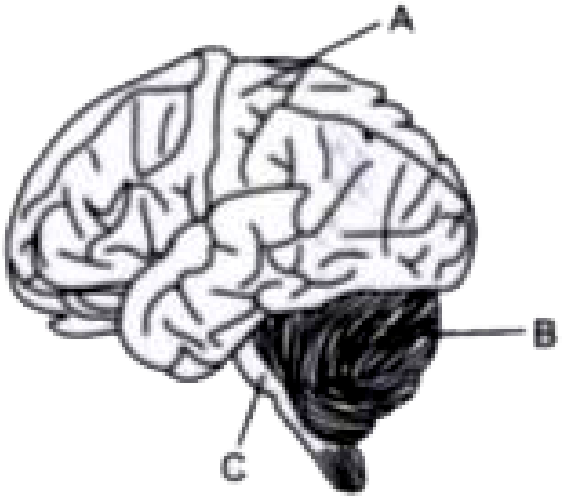
64. The diagram shows a section of the human brain. Answer the question which follow:



Name the three protective membranes covering the brain.

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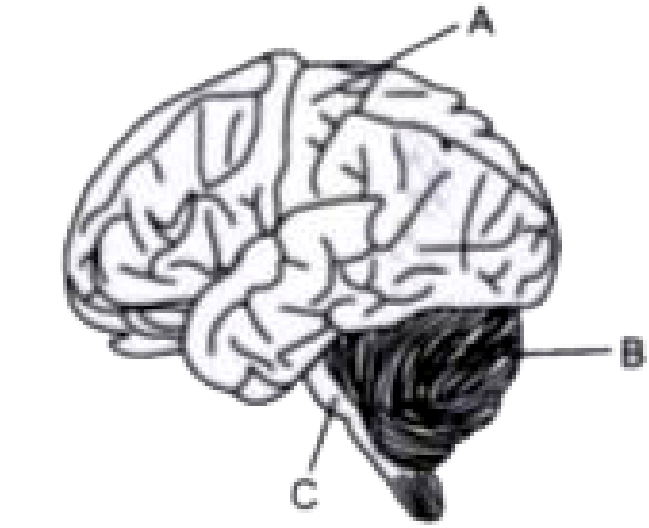
65. The diagram shows a section of the human brain. Answer the question which follow:



Name the basic unit of the brain.

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66. The diagram given below is an external view of the human brain. Study the same and answer the questions that follow :

Mention the collective term for the membranes covering the brain.

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67. Give the biological/technical terms for the following:

The quick actions which are involumtary and controlled by the spinal cord.

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68. Name the Eye defect in which cornea becomes uneven.

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69. Give the biological/technical terms for the following:

The stage of cell division in which the nuclear membrane disappears and the chromosomes become short and thick.

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70. Give technical term to the following:

The inflammation of meninges.

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71. The repeating components of each DNA strand lengthwise.

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72. Give the biological/technical terms for the following:

The site of photosynthesis in a plant cell.

Watch Video Solution

73. Give the biological technical term for the following:

Process of conversion of several molecules of glucose to one molecule of starch.

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74. Name the Photosensitive pigment present in the cone cell of retina.

Watch Video Solution

75. Name the Fluid present in the anterior part of the eye in front of the eye lens.

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76. Give the biological/technical terms for the following:

The defect of vision in which some parts of the objects are seen in focus while the others are blurred.

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