



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

REPRODUCTION THE GENERATING SYSTEM

Textual Lesson Part

1. Do you think reproduction occurs only for continuation of life ?



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2. How does an organism grow ? How does repair of worn out parts take place ? Is there any form of reproduction involved in the process ?



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1. Why do fish and frog produce a huge number of eggs each year ?



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2. Give examples and explain what is meant by external fertilisation.



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3. Write differences between

Grafting -Layering



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4. Explain the process of fertilization in plants.



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5. Explain the process of fertilization in plants.



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6. Double fertilization is wonderful phenomenon in flowering plants.

Explain double fertilization in flowering plant with the help of a diagram.



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7. Name the mode of asexual reproduction in yeast.



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8. Plants propagate normally through seeds. What are other ways that plants propagate through ? Give examples.



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9. What are the advantages of sexual reproduction over asexual reproduction?



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10. How are sperms cells adapted for their function?



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11. The menstrual cycle prepares the uterus for a fertilised egg. How long is an average menstrual cycle from start to finish ?



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12. When the foetus is growing inside the uterus it needs nutrients. What provides these nutrients ?



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13. Which type of substances are absorbed by foetus from the mother ?



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14. What is the job of the amniotic sac ?



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15. What are the advantages of sexual reproduction ?



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16. How does reproduction help in providing stability to population of the of species ?



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17. List the main differences between mitosis and meiosis.



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18. What happens to the wall of the uterus during menstruation ?



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19. What changes occur in the wall of the uterus during menstruation ?



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Improve Your Learning Asking Questions And Making Hypothesis

1. 'All unicellular organisms undergo only mitotic cell division during favourable conditions' - Do you support this statement ? Why ?



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2. What would be the consequences if there is no meiosis in organisms that reproduce sexually?



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3. What happens if meiosis does not take place in reproductive cells?



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Improve Your Learning Experimentation And Field Investigation

1. Vicky's father wants to grow a single plant having two desirable characters colourful flowers and big fruits. What method will you suggest him and why?



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2. What procedure you will follow to observe stages of mitosis in onion root tip?



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3. Uproot an onion plant and take a thin section of its root tip. Stain it and observe under microscope. Draw as you see and identify the stages of the cell division.



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Improve Your Learning Information Skills And Projects

1. Visit a nearby village and collect information how farmers grow sugarcane, flowering plants like chrysanthemum, prime rose and vegetables like stem tubers, plump gourd (dondakaya) etc. Make a report and submit in class.



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Improve Your Learning Communication Through Drawing Model Making

1. Collect information from school library or using internet what vegetative methods are followed in your district as well as in your state to propagate various plants of economic importance.

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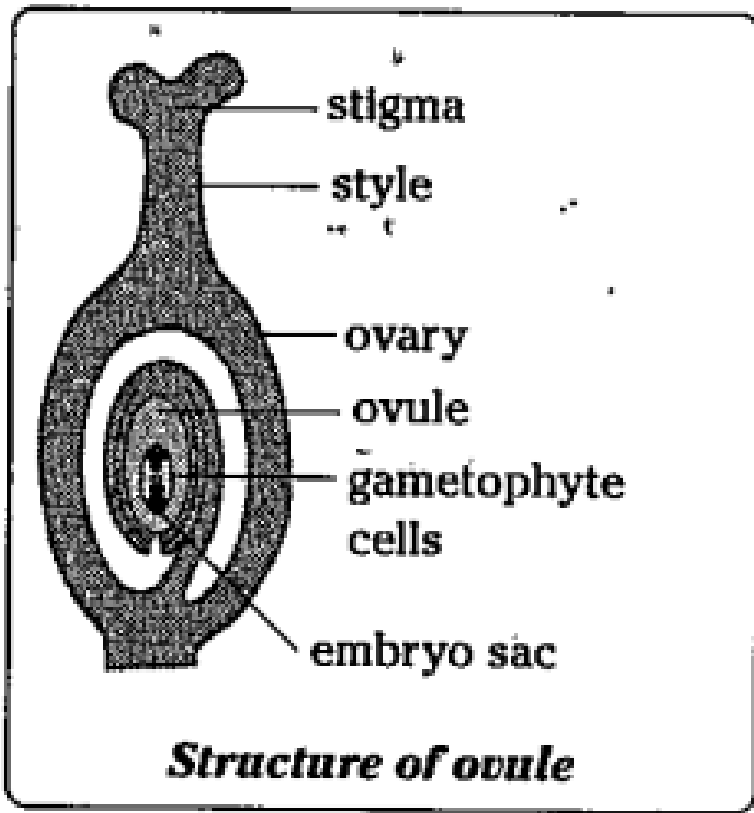
2. Make a flow chart to show the cell cycle and explain cell division describing different stages of mitosis.

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3. Draw neat labelled diagrams of male and female reproductive system of plant.

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4. Observe the following part of a flowering plant. Prepare a note.



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5. Prepare a flow to explain the process of sexual reproduction in plants.



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6. Draw a neatly labelled diagram to explain plant fertilisation. Write a few points on pollen grain.



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Improve Your Learning Appreciation And Aesthetic Sense Values

1. How ill you appreciate cell division that help perpetuation of life?



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Improve Your Learning Application To Daily Life Concern To Biodiversity

1. What precautions will you take to away from various sexually transmitted discases?



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2. What precautions will you take to keep from diseases like AIDS and other sexually transmitted diseases?



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3. Conduct a seminar on child marriages and foeticide.



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Questions Given In The Lesson 1 Mark Questions

1. How do you think bacteria were dividing to form curd?



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2. How do you think this (parthenogenesis) happens?



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3. Would it involve two parents?



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4. Which type of fission would produce larger colonies in less period of time . Why?



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5. Which mode of asexual reproduction provides maximum scope of choice of desirable characters?



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6. What are the characters that would you like to select?



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7. What mode of propagation would help you to produce the plants with desirable characters?



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8. Do you find any similarities between rhizopus and fern spores and sporangia?



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9. Think why testis are located outside the abdominal cavity?



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10. What function do you think is served by petals and sepals?



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11. How many nuclei are present in the pollen grain?



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12. Which floral part may be seen in a fruit?



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13. How would it affect the progeny formed by sexual reoroduction ?



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Questions Given In The Lesson 2 Marks Questions

1. Is regeneration can also be known as a type of fragmentation? Do you agree ? Why or why not?



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2. In what way is the anomalous behaviour of water advantageous to aquatic animals ?



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3. Whether they reproduce by budding, fission or fragmentation ? Organisms formed are the exact copies of their parents. Is it true? Why?



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4. What about mushrooms, how do they grow? Discuss in your class.



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5. How does the male reproductive cells reach the female reproductive cells in flowers of such plants (pea plants)?



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6. How are cotyledons useful for the plant?



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7. What would happen if the gametes do not have half the chromosome number as the skin parent?



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8. Why did the government of india fix the marriage age of boys (21 years) and girls (18 years)?





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9. Do you feel that it is a social responsibilities to control birth after having one or two children?



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10. What do you understand by the 'Healthy Society' ?



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11. Will you encourage child marriage?



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Questions Given In The Lesson 4 Marks Questions

1. Draw the diagram of the flower that you collect and parts shown and write their functions.



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2. Social discrimination against AIDS patient is also a social evil . Can you support this Why?



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3. Why doctors are prohibited to do sex determination through ultrasound scanning for pregnant women ?



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Objective Assignment

1. The part of the female reproductive system that produces the eggs.....

- A. Ovary
- B. Epididymis
- C. Cervix
- D. Fallopian tube

Answer:



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2. The term that we use to describe a sperm cell fusing with an egg cell.....

- A. Fragmentation
- B. Fermentation
- C. Fertilisation
- D. Fusion

Answer:



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3. Which part of the male reproductive system produces (human) the sperm cell?

- A. Vas deference
- B. Epididymis
- C. Seminiferous tubules
- D. Scrotum

Answer:



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4. How does the sperm break through the egg cell membrane ? Choose the option you think is right.

- A. Tears a hole in the membrane
- B. Dissolves the membrane with chemicals
- C. Bites through the membrane with teeth
- D. Squeezes through gaps in the memberane

Answer:



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5. Why are egg cells large than sperm cells? Choose the option you think is right.

- A. Egg cells have more cells in them
- B. Have food store to help growth after fertilisation
- C. Have thicker cell membranes
- D. Have larger nuclei

Answer:



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6. Which of these things will affect the way a foetus grows? Choose the option you think is right.

A. Chemicals in cigarette smoke

B. Alcohol

C. Drugs

D. All of the above

Answer:



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7. Which of the following is the correct sequence of steps in the human life cycle? Choose the right option.

A. Babyhood, childhood, adolescence, adulthood

B. Childhood, babyhood, adulthood, adolescence

C. Adolescence, babyhood, adulthood, childhood

D. None of above

Answer:



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Creative Questions For New Model Paper 1 2 Mark Questions



1.

Name the asexual reproduction shown in the above figure.



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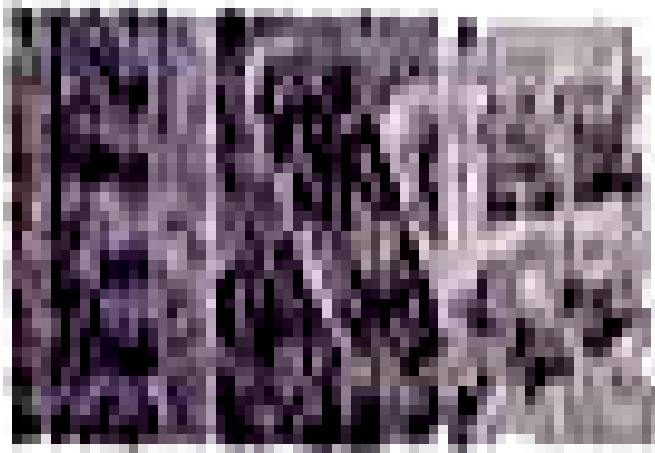


2.

Name the asexual reproduction shown in the above picture.



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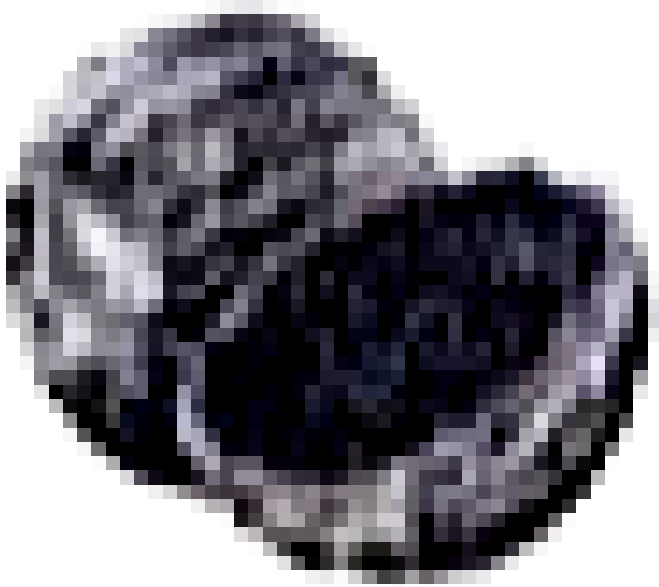


3.

Name the mode of reproduction shown in the above figure.



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4.

Though which process, the above shown seedless fruits formed?



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5.

Name the above method of reproduction.



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6.

Name the plant shown in the above figure which propagate through epiphyllous buds.



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7. 

In which plant, you can see the above propagation?



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8. 

In which plant, you can observe the above propagation?



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9. 

Give one example for the above shown propagation .



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10. 

Name the above artificial vegetative propagation.



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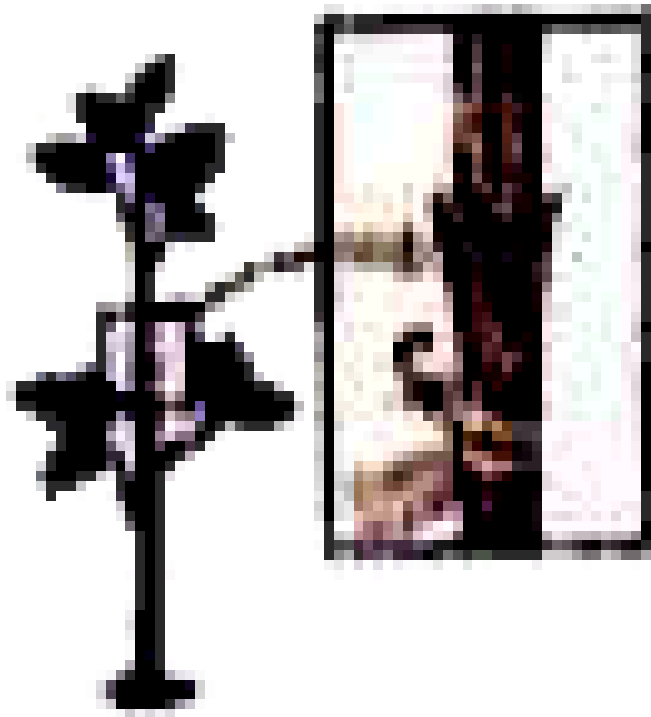
11. 

Identify the above shown artificial vegetative propagation.





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12.

Can you identify the above shown artificial vegetative propagation?



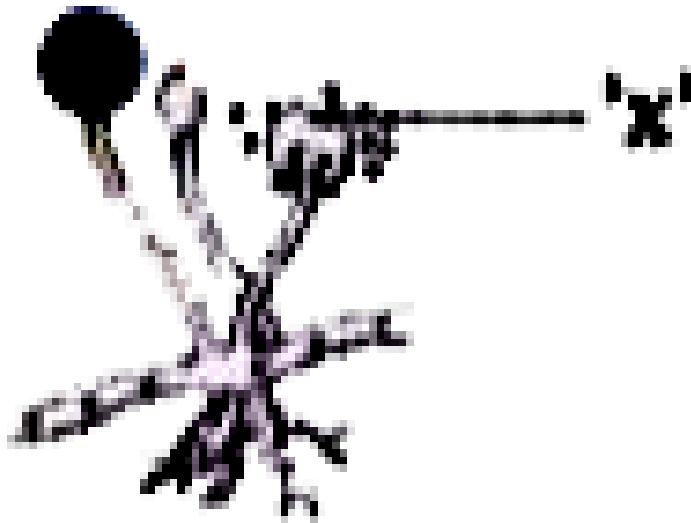
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13. 

Can you identify the above fungus?



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14.

Name the labelled part 'x' in the above figure.



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15. 

Can you identify the structure shown in the above figure?



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16. 

To which system the above figure is associated with?



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17. 

Identify the labelled part 'x' in the above figure.



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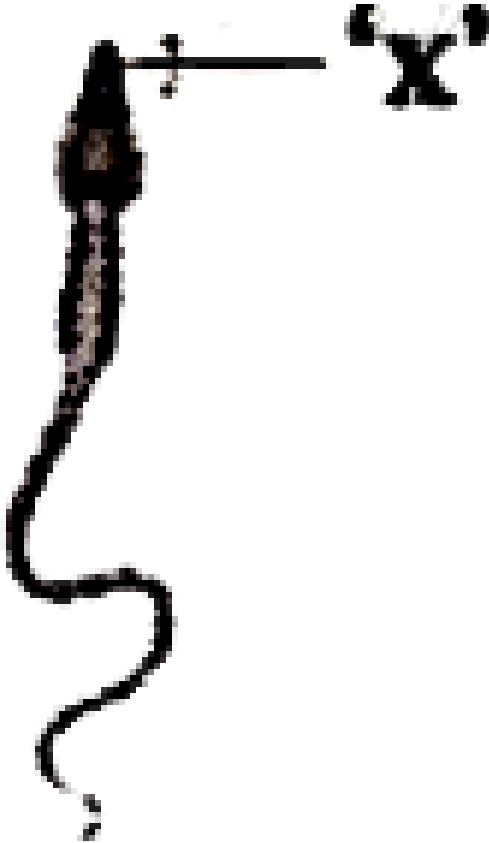
18.

Name the above structure shown in the above figure

Name the above structure shown in the above figure.



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19.

Name the labelled part 'x' in the above figure.



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20. 

To which system the above system belongs to ?



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21. 

Name the labelled part 'x' in the above figure.



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22. 

Name the above structure shown.



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23. 

Identify 'x' in the above figure.





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24. 

Identify 'x' in the above figure.



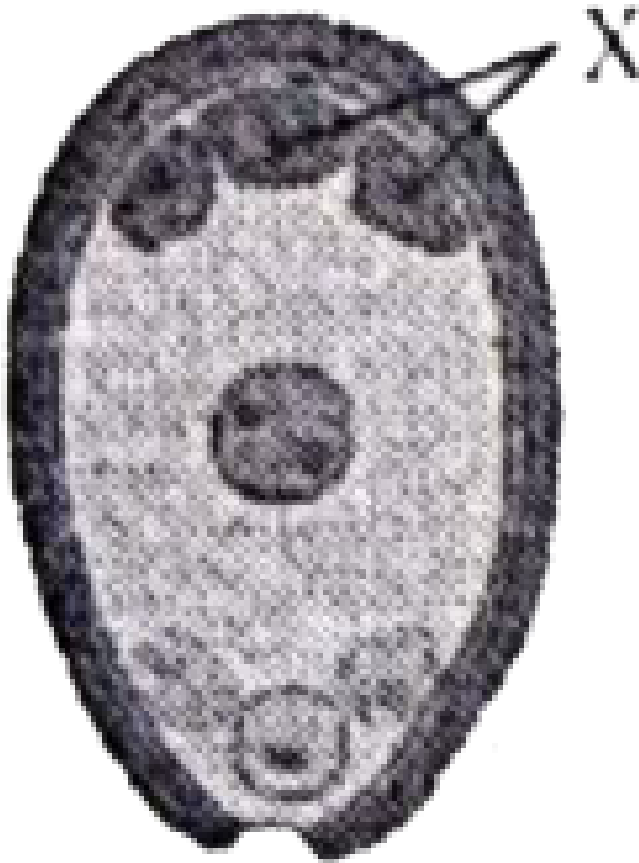
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25. 

Name the labelled part 'x' in the above figure.



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26.

Name the labelled part 'x' in the above figure.



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27. 

Name the labelled 'x' in the above figure.



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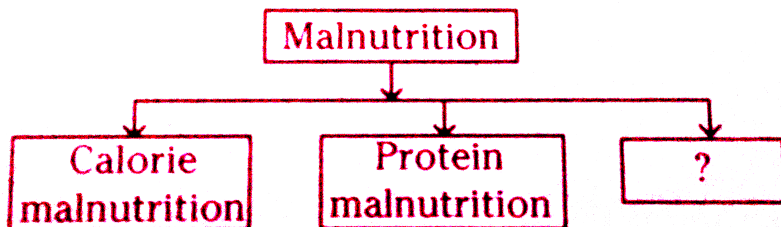
28. 

Name the labelled part 'x' in the above figure.



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29.



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30. 

Name the labelled part 'x' in the above figure.



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31.

Name the above structure shown in the above figure

Name the above structure shown in the above figure.



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32. Identify the scientist with the help of the paragraph.

In the year 1879, he examined many kinds of animal and plant cells and identified mitotic cell division.



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33. Name the scientist with help of the following paragraph.

He hypothesised that in successive cell division the number of chromosomes always remain constant. He hypothesised meiosis.



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34. Complete the following blanks.

In skin cells(1) division takes place, whereas in reproductive cells(2) division takes place.



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35. Complete the blanks.

Union of one male nucleus with the egg cell, forms (1) and the second male nucleus with the fusion nucleus forms (2)



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36. Complete the blanks.

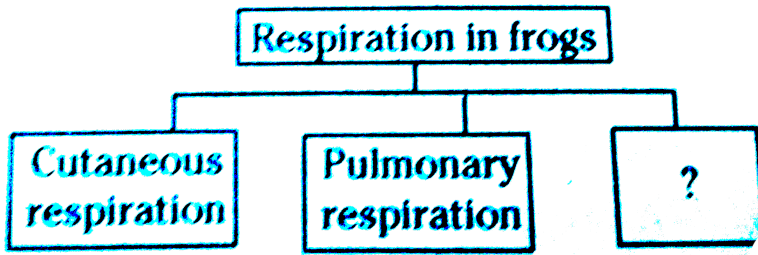
The sperms are produced by(1).

The tail of the sperm helps in(2).



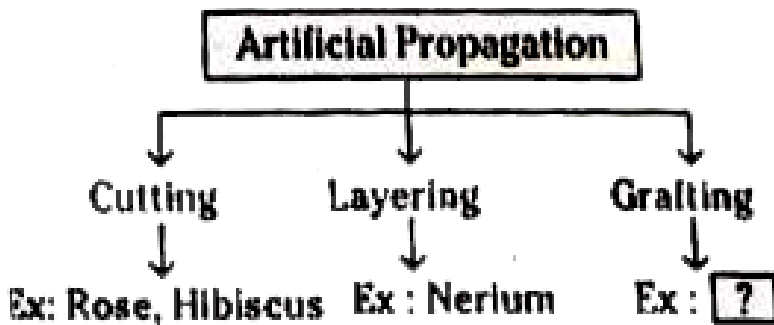
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37. Observe the flow chart and complete the blanks .



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38. Fill the missing options



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39. Fill the missing options

mg

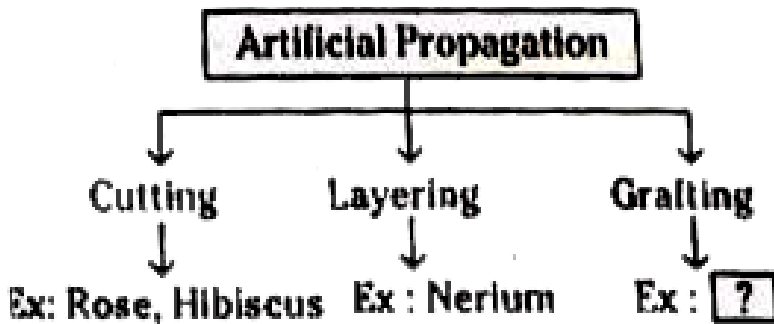
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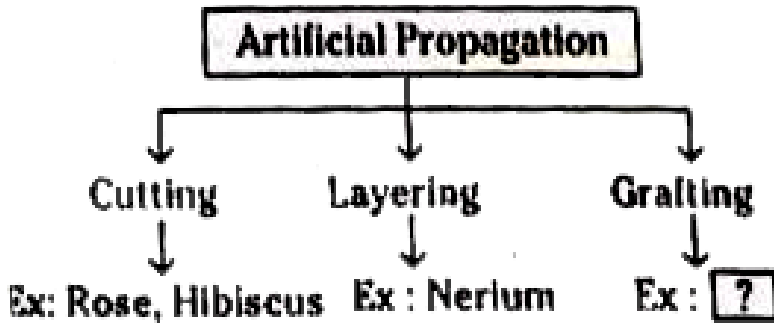
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40. Fill the missing options



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41. Fill the missing options



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42. Expand A.I.D.S.



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43. Expand STD.



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44. Expand H.I.V.



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45. Expand A.S.H.A.



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46. Expand A.R.T.



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47. Identify the mis-matched pair .

(1) Budding - Yeast

(2) Fission - Paramecium

(3) Fragmentation - Bees



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48. Identify the mis-matched pairs.

(1) Stolon - Mango

(2) Bulb - Onion

(3) Root- Raddish



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49. Identify the mis- matched pair.

(1) Plumule - Stem

(2) Radicle -Flower

(3) Endosperm - Nutrition



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50. Identify the mismatched pair.

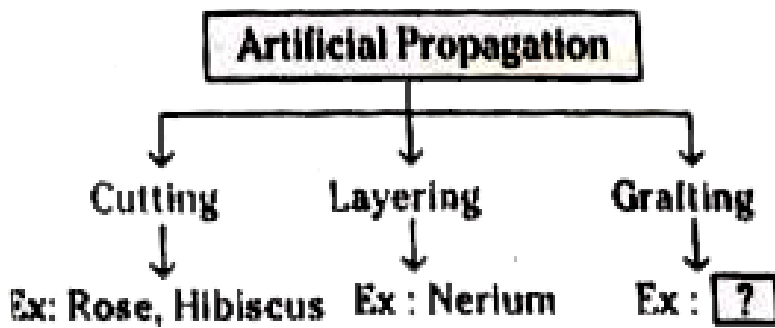
(1) Marriage age for men - 18

(2) Marriage age for women - 21

(3) AIDS- HIV

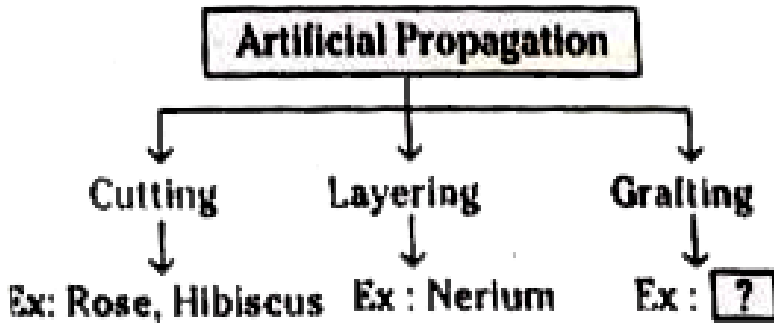
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51. Fill the missing options



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52. Fill the missing options



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53. Observe the following placards. Suggest one occasion, to use them in your school.



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54. Which of the following group does not constitute vegetative propagation methods?

A. fission,Budding,Fragmentation,Regeneration

B. Stolons, Suckers, Runners,Bulbs,Corns



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55. Which of the following group represent STDs ?

A. Typhoid, Dengue,T.B, Malaria

B. AIDS,Syphilis,Gonorrhoea



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56. Which of the following group represent the parts of female reproductive system?

A. Seminal vasicles, cowper gland , prostate gland

B. Fallopian tube, uterus, vagina, ovary, funnel



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57. I am a surgical birth control method in males. Who am I ?



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58. I can act as contraceptive and prevent sexual infection. Who am I ?



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59. I am a surgical birth control method in females. Who am I ?



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60. I am an artificial method of vegetative propagation, through which the desired characters can be obtained . Who am I ?



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61. I am one type of cell division . I can repair the wounds and help in the process of growth . Who am I ?



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62. Which of the following group represents male reproductive parts?

A. Anther, Pollen grain, Stamen

B. Ovary, Corolla, Stigma, Ovule, Ovary



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63. I Formed due to the fusion of second male gamete with fusion nucleus. I am in '3n' condition . Who am I ?



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64. I am a fungus. I reproduce asexually through by sporulation. I am also known as bread mould. Who am I ?



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65. Read the following lines, find the error and rewrite it.

Majority of flowering plants have an embryosac consisting of eight cells and nine nuclei.



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66. Read the following lines, find the error and rewrite it.

Pollen grain may have a pollen tube and one nucleus. It germinates only on the style.



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67. Read the lines, find the error and rewrite it.

One of the two sperms fuses with the egg to form a zygote. By the time the egg cell has been fertilized, the two polar nuclei to form a single endosperm nucleus.



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68. Read the following lines, find the error and rewrite it.

Zygote is in ' $3n$ ' condition and endosperm nucleus is in ' $2n$ ' condition.



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69. I am a special tissue formed after double fertilization. I store food materials for the nourishment of the embryo. Who am I?



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70. We digest and absorb the endosperm and make the stored food for the growth of epicotyl and hypocotyl. Can you name us?



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71. Rhizopus: Sporangium, Aspergillus: ?



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72. Mango: Grafting: Nerium:?



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73. Bulb : Onion: Tuber:?



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74. Stolon: Jasmine, Corm:?



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75. Rhizome: Stem, Bryophyllum:?



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76. Planaria: Regeneration, Spirogyra: ?



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77. Amoeba: Binary fission, Yeast: ?



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78. Name the scientist with the help of the following paragraph.

He proposed the cell theory. He proposed that "Omnis cellula de cellula."



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79. Name the scientist with help of the paragraph.

He proposed that chromosomes carried a different set heritable elements.



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80. Expand D.N.A.



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81. Expand R.N.A.



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82. Name the scientist with the help of this paragraph.

In 1904, he proposed the scheme of mitotic division. It was considered as the milestone in the history of cell biology.



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83. Name the scientist, with the help of the following lines.

In 1953, they discovered the structure of DNA and they declared that it was double helix. They were honoured with the Nobel prize for their work.



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84. Identify the mis-matched pair.

(1) World AIDS Day - June, 5

(2) STD-Gonorrhoea

(3) ASHA- HIV patients



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85. Name the scientist with the help of the following lines.

In 1876, he showed that plants when isolated had the greatest tendency to self-fertilize while when surrounded by variety of the same flowers, they readily cross fertilize.



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86. I originate from the digestive canal of the embryo. I am a tube like structure I have very important blood vessels that connect the embryo with the placenta. Who am I?



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87. Identify the correct sequence.

(A) Prophase → Anaphase → Telophase → Metaphase

(B) Prophase → Metaphase → Anaphase → Telophase

(C) Metaphase → Telophase → Prophase → Anaphase

(D) Prophase → Anaphase → Metaphase → Telophase



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88. In the diagram, 'X' denotes.....



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List- A

List-B

- 89.
- | | |
|-------------------|--------------|
| 1. Fragmentation | —Fungi |
| 2. Budding | —Paramoecium |
| 3. Binary fission | —Flatworm |

Write the mis-matched pairs.



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90. Arrange the stages of cell cycle of mitosis in correct order:

S phase

1

→

G₂ phase

2

→ **M phase**

3

→

G₁ phase

4



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91. Arrange the sequence of steps of human life cycle.

1. Adolescence
2. Babyhood
3. Adulthood
4. Childhood



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92. This symbol denotes.....



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93. The student observes pollen grains under microscope.

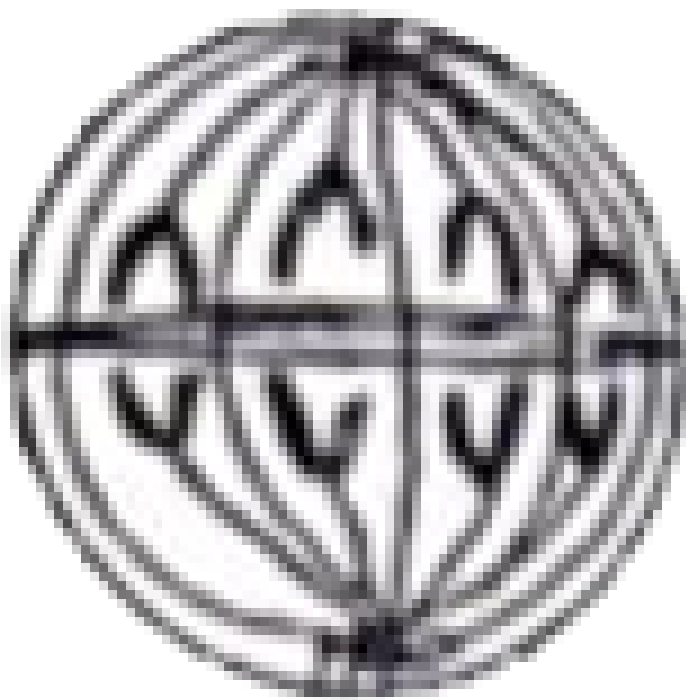


It appears as below. 'X' indicates.....



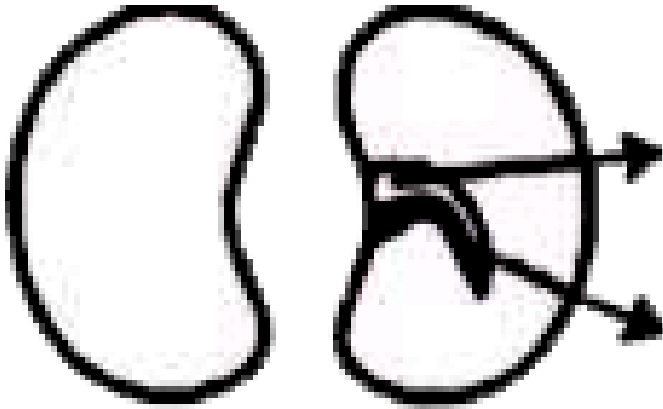
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94. Write the stage of cell division .



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95. Name the structures found in a bean seed shown in the figure.



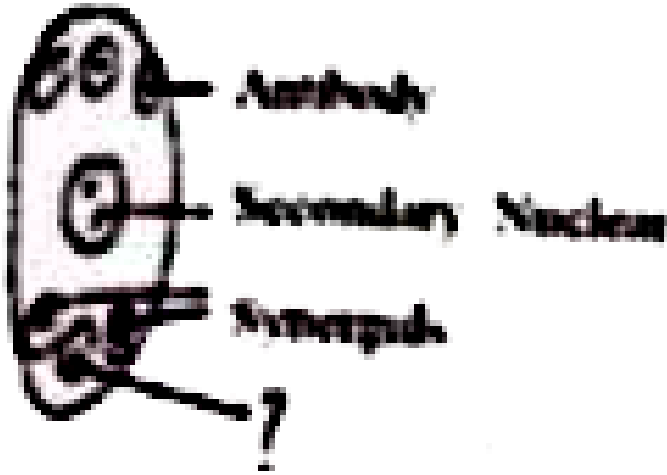
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96. The Pollen grain has 2 Nuclei. Whenever the pollen tube enters the Embryo soon after the tip of the pollen tube enters the embryo sac, the end of the tube ruptures and releases the two sperms into the embryo sac. One of the two sperms fuses with the egg to form 'X' and another sperm fuses with polar nuclei and form Y. What are X and Y in the above para?



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97. Name the part which is asked as a question mark ?



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98. Who stated that binary fission of cells was the means of reproduction of animals cells?



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99. Who hypothesised that individuals of the same species have the same number of chromosomes ?





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100. Identify the mismatched pair.

- (a) Runner — Grass
- (b) Tuber — Potato
- (c) Bulb — Carrot



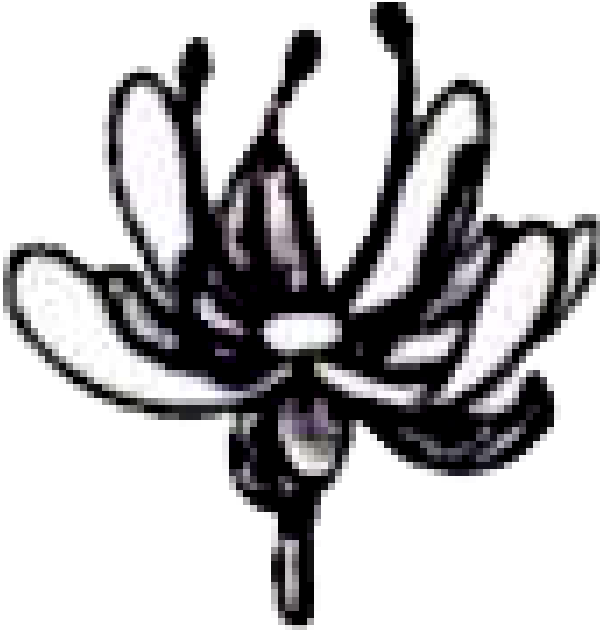
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101. Surgical method: Tubectomy : : Barrier method:.....?.....



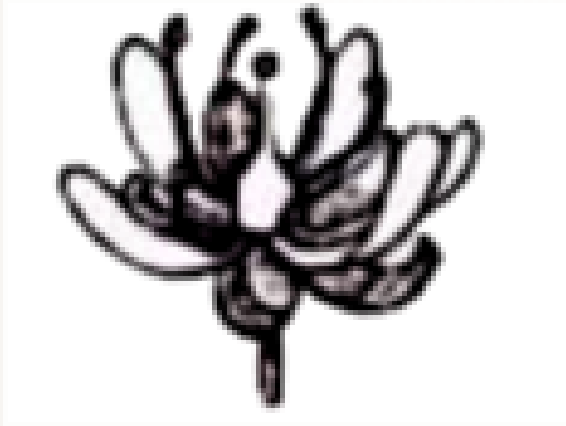
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102. Which type of flower is this?



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103. This is an example for



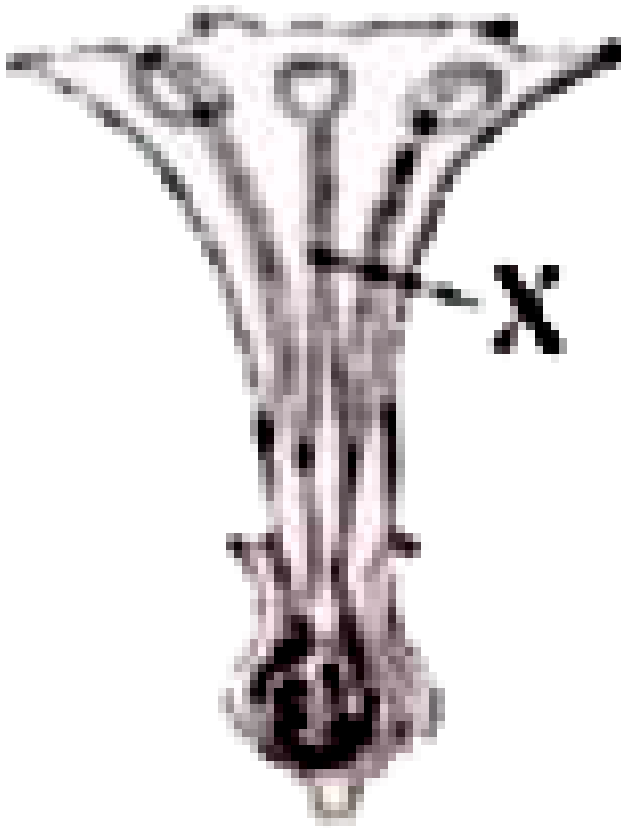
- A. Bisexual flower
- B. unisexual flower
- C. sterile flower
- D. none of these

Answer:



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104. In this diagram, X represents



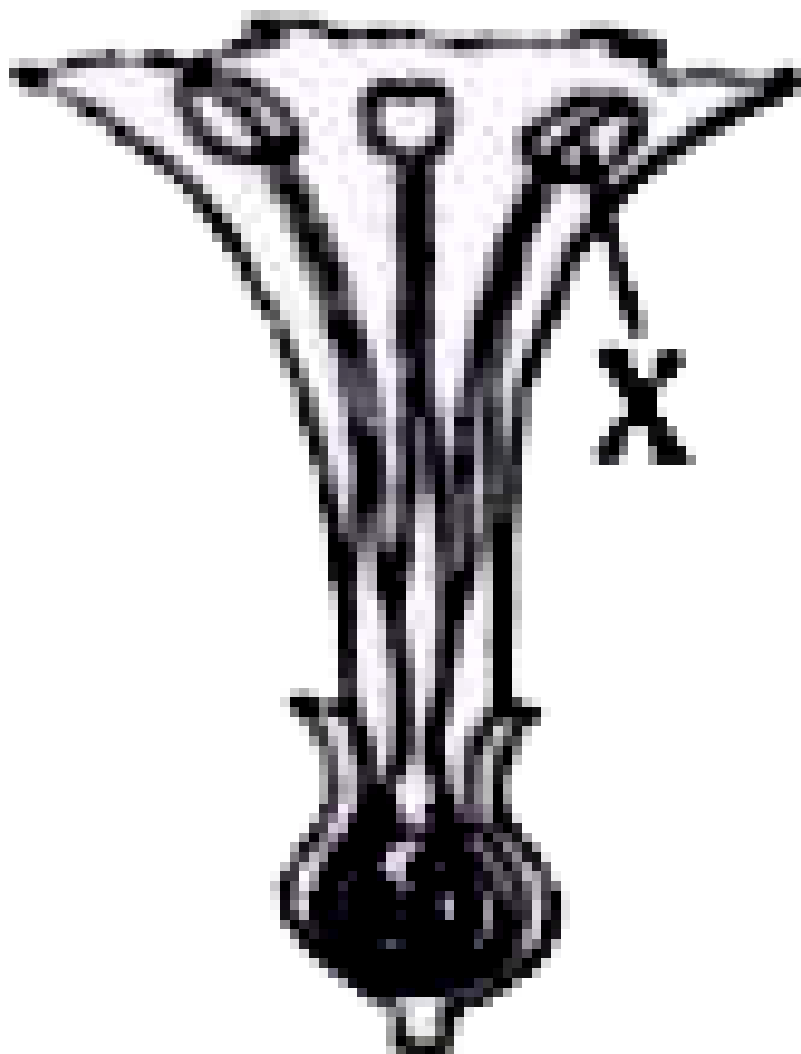
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105. In this diagram, X represents





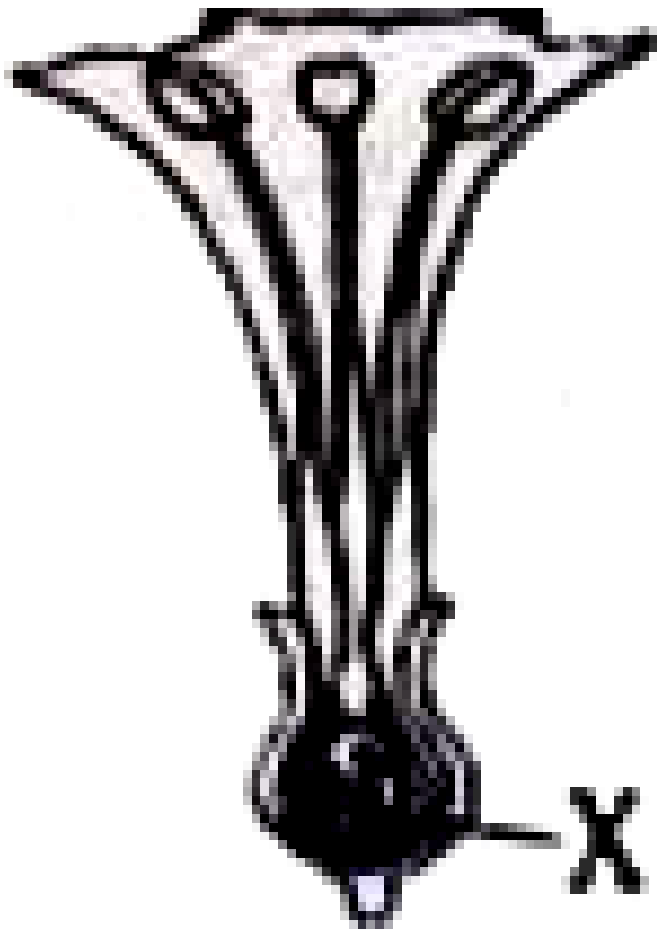
106. In this diagram, X denotes





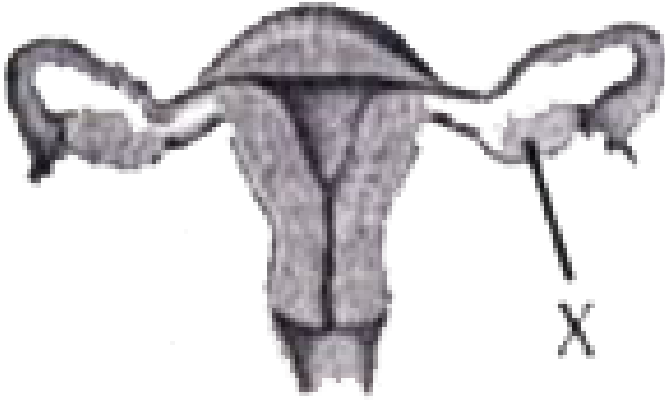
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107. In this diagram, X represents



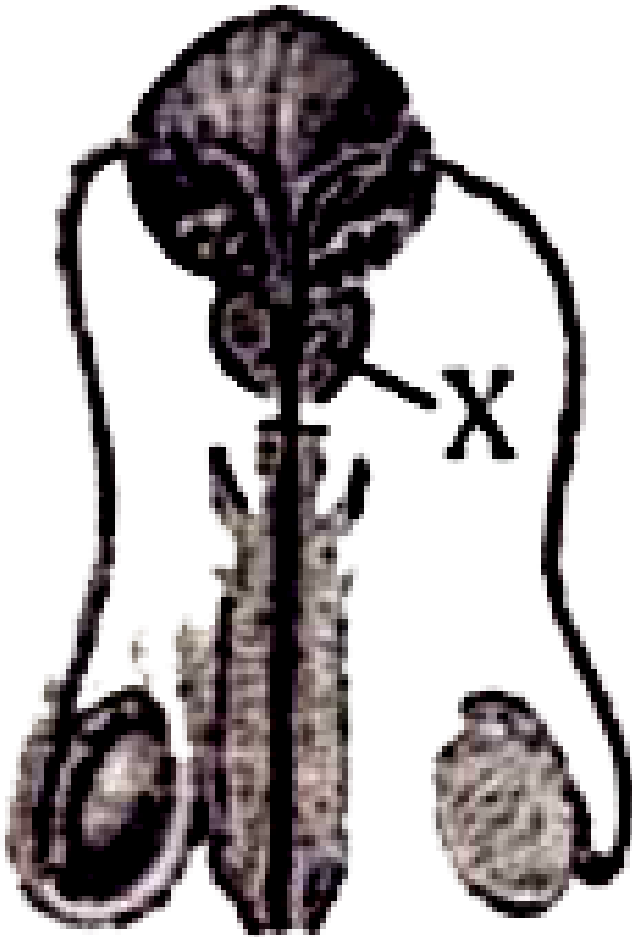
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108. In this diagram X represents



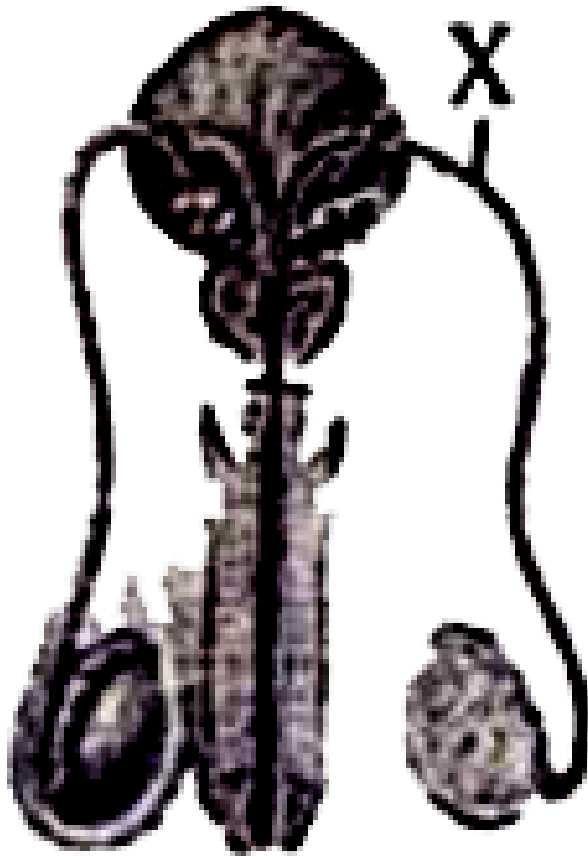
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109. In this diagram X denotes.....



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110. In the given diagram X represents

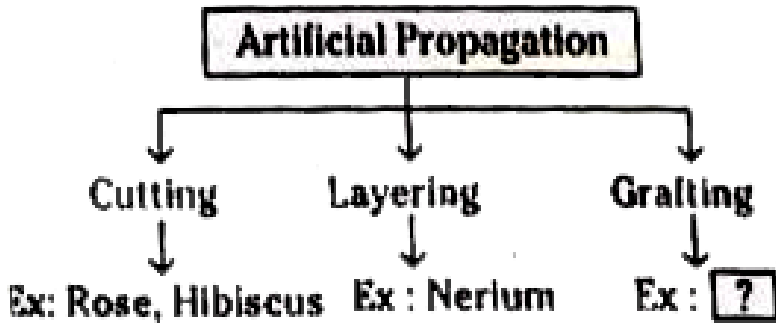


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111. Name the structure that denotes 'X' in the given diagram.



112. Fill the missing options



113. Identify the mismatched pair

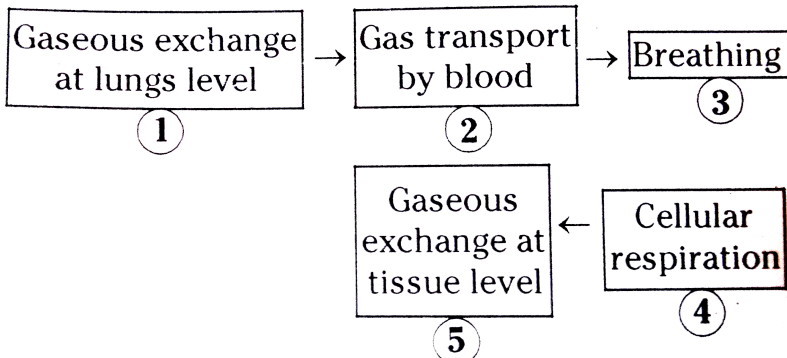
- (1) Tuber - Potato
- (2) Corn - Colocasia
- (3) Bulb - Ginger

114. Can you identify this phase of mitosis?



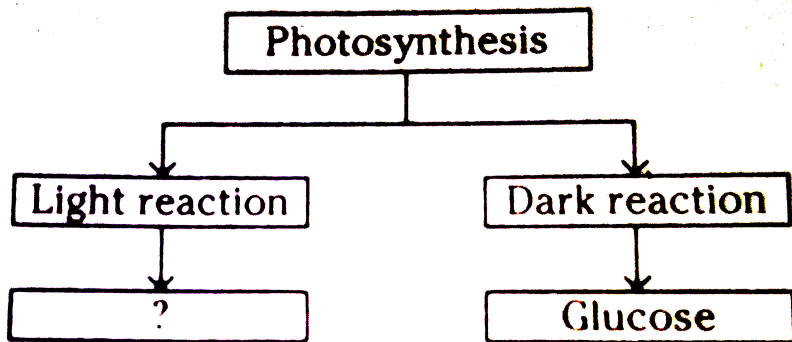
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115. Arrange the flow chart in correct order.



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116. Complete this flow chart.



ATP, NADPH



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117. Complete this table.

Enzyme	Location of release
1) Pepsin	Stomach
2) Trypsin	?



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Creative Questions For New Model Paper Preparation Questions For The Examination Purpose

1. What is the mode of asexual reproduction do you find in paramoecium ?



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2. Name the mode of asexual reproduction in yeast.



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3. Where do you observe 'fragmentation' mode of asexual reproduction?



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4. In which process, the female gametes develop into zygote without fertilization ?



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5. Name the process of development of young ones from unfertilized ovum.



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6. What is the cause for formation of seedless fruits ?



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7. What kind of reproduction do you observe in bees, wasps and ants ?



[Watch Video Solution](#)

8. Where do you observe "regeneration" ?



[Watch Video Solution](#)

9. In which plant te vegetative propagation occurs through leaves ?



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10. Give an example for bulbs.



Watch Video Solution

11. Give an example for tubers.



Watch Video Solution

12. Give two example for stolon.



Watch Video Solution

13. Give one example for corm.



Watch Video Solution

14. Give one example for rhizome.



Watch Video Solution

15. Give examples for storage roots.



Watch Video Solution

16. Give example for cuttings.



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17. In which plant we can see 'layering' ?



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18. What is the best method to obtain desirable characters in a plants ?



[Watch Video Solution](#)

19. What are the traditional methods of artificial propagation ?



[Watch Video Solution](#)

20. Name the process in which thousands of plants can be grown in very short interval of time.



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21. Suggest the artificial method of propagation best for commercial propagation of plants.



[Watch Video Solution](#)

22. What is "bread mould" ?



[Watch Video Solution](#)

23. What is the process of reproduction in Rhizopus ?



[Watch Video Solution](#)

24. What is the reproductive structure of Rhizopus ?



[Watch Video Solution](#)

25. In which plant do you observe "sporophyll" ?



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26. On the lower side of the leaf of Fern, the cluster of dot like structures are seen. Can you name these structures ?



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27. Name the part that produces the sperm cells or male reproductive cells in the male reproductive system ?



Watch Video Solution

28. In plants, the fusion of male gamete with secondary nucleus results is ?



Watch Video Solution

29. Where can you observe double fertilization and triple fusion ?



Watch Video Solution

30. Name the body part which has divisionless cells.



Watch Video Solution

31. What are the hazardous substance that show effect on the growth of fetus ?



Watch Video Solution

32. What is the gestation period in human beings ?



Watch Video Solution

33. What are the functions of testes during puberty ?



Watch Video Solution

34. The teacher said that egg cells are larger than sperm cells. What is the reason for this ?



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35. Mother's uterus tissue and chorion tissue of the embryo together form a structure. What do you name it ?



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36. With what name do you call the embryo after the third month of pregnancy ?



Watch Video Solution

37. When do we celebrate 'World' s AIDS day' ?



Watch Video Solution

38. What are the most important floral organs required for sexual reproduction ?



Watch Video Solution

39. Where do you observe diploid condition in the embryo sac at the time of fertilization ?



Watch Video Solution

40. In which organisms do you observe external fertilization ?



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41. Name the STD which is used by bacteria.



Watch Video Solution

42. Name the method of contraception protects a person from acquiring a sexually transmitted disease.



Watch Video Solution

43. Name the surgical birth control method in males.



Watch Video Solution

44. Name the surgical birth control method in females.



Watch Video Solution

45. Name the part of the seed which grows and develops into root on germination.



Watch Video Solution

46. If a flower contains both stamen and carpel, then what do we call this flower?



Watch Video Solution

47. "Plants perfect self pollination, when they are isolated" - Who said these words?



Watch Video Solution

48. Who discovered mitosis?



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49. Name the phase of mitosis in which chromosomes split together to form chromatids.



Watch Video Solution

50. What are the programmes implimenting to control AIDS in our state ?



Watch Video Solution

51. Where do you observe epiphyllous buds?



Watch Video Solution

52. What is the first cells formed after the union of male gametes will egg ?



Watch Video Solution

53. Name the watery lymph like fluid that accumulates in the mammary glands during the last part of pregnancy.



Watch Video Solution

54. Male reproductive system secretes a fluid called semen . What is its use ?



Watch Video Solution

55. What type of cell division can we observe in reproductive cells?



Watch Video Solution

56. Name the period of cell cycle during which DNA is synthesized.



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57. What is Cytokinesis. ?



Watch Video Solution

58. What is Karyokinesis ?



Watch Video Solution

59. Give examples for sexually transmitted diseases (STDs).



Watch Video Solution

60. Where does fertilization takes place in females ?



Watch Video Solution

61. Who confirmed scheme of mitotic division in 1904 ?



Watch Video Solution

62. Give an example for intra uterine device.



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63. What is the statutory marriageable age for men and women in India ?



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64. Where is the egg apparatus is placed in the embryo sac ?



[Watch Video Solution](#)

65. What do anthers contain ?



[Watch Video Solution](#)

66. What are responsible- inheritance of characters ?



[Watch Video Solution](#)

67. Who discovered that chromosomes appear double in nature ?



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68. Who discovered the double helical structure of DNA ?



Watch Video Solution

69. Give an example for modified underground stem .



Watch Video Solution

70. How does colostrum helpful for the new born baby ?



Watch Video Solution

1. In what way does mitotic division help the living organism ?



Watch Video Solution

2. What questions you ask the doctor, who visited your school on world AIDS day ?



Watch Video Solution

3. What is colostrum ?



Watch Video Solution

4. Give any two suggestions to create awareness to stop female foeticide.



Watch Video Solution

5. Write two precautions you take , while observing Rhizopus in the laboratory.



Watch Video Solution

6. Name the types of asexual reproduction in the following organisms:

(a) Paramecium

(b) Yeast



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7. Apparao and Ramulamma are a newly married illiterate couple. They don't want children for few years. Suggest some birth control methods for them.



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8. During favourable conditions paramoecium reproduce by ?



Watch Video Solution

9. In which organisms fragmentation is a common mode of reproduction ?



Watch Video Solution

10. What is parthenogenesis ? Give example.



Watch Video Solution

11. What are the methods of artificial propagation ?



Watch Video Solution

12. Which method is used to obtain a plant with desirable characters ?



Watch Video Solution

13. What is tissue culture ?



Watch Video Solution

14. What is the name of common bread mould ?



Watch Video Solution

15. What is fertilisation ?



Watch Video Solution

16. Give examples and explain what is meant by external fertilisation.



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17. What is internal fertilisation ?



[Watch Video Solution](#)

18. What are the parts that present in male reproductive sysytem of man ?



[Watch Video Solution](#)

19. What are the accessory glands present in male reproductive system?



[Watch Video Solution](#)

20. What is ovulation ? How it occurs ?



[Watch Video Solution](#)

21. Which one of the following is not the function of placenta ? It



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22. When did the placenta is formed in the period of pregnancy ?



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23. What is umbilical cord?How does it form?



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24. What is foetus ?



Watch Video Solution

25. What is gestation period ?



Watch Video Solution

26. What are labour pains ?



Watch Video Solution

27. What is the need of sexual reproduction ?



Watch Video Solution

28. What are the different part of a flower ?



Watch Video Solution

29. What are unisexual flower ?



[Watch Video Solution](#)

30. What are the three parts of carpel ?



[Watch Video Solution](#)

31. What is self pollination ?



[Watch Video Solution](#)

32. What is cross pollination ?



[Watch Video Solution](#)

33. What is double fertilisation ?



[Watch Video Solution](#)

34. Who discovered mitosis ?



Watch Video Solution

35. What is the meaning of the phrase "Omnis cellula de cellula" ?



Watch Video Solution

36. What is interphase ?



Watch Video Solution

37. What is G_1 phase of the interphase?



Watch Video Solution

38. What is 'S' phase of the interphase ?



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39. What is G_2 phase of the interphase ?



[Watch Video Solution](#)

40. What are the different stages present in mitosis ?



[Watch Video Solution](#)

41. When does meiosis occur ?



[Watch Video Solution](#)

42. What is the virus that causes AIDS ?



[Watch Video Solution](#)

43. How does AIDS spread from one person to another ?



Watch Video Solution

44. What are the factors that contribute to the spread of HIV in the state?



Watch Video Solution

45. What is contraception ?



Watch Video Solution

46. What are the surgical methods to prevent fertilisation ?



Watch Video Solution

47. What is foeticide ?



Watch Video Solution

48. Who used cells fusion technique to understand the functional relationship between different phases of interphase ?



Watch Video Solution

49. What is the advantage of reproduction through spores in the case of rhizopus ?



Watch Video Solution

50. Which process taking place in the nucleus of a cell leads to variation in the offspring during reproduction ?



Watch Video Solution

51. Why it is said that sexual reproduction promotes diversity of characters in the offspring ?



Watch Video Solution

52. Name the causative organism of syphilis and gonorrhoea .



Watch Video Solution

53. Why are variation possible in progeny of sexually reproductive individuals ?



Watch Video Solution

54. The simple animals such as planarism can be cut number of pieces and each piece grows into a complex organism. What is this process

known as ?



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55. A student kept leaves of Bryophyllum in the soil. After few days new plants were grown from them. Why ?



Watch Video Solution

56. Name the three plants which are now grown using plant tissue culture method.



Watch Video Solution

57. What does the mother's blood take away from the baby and into the placenta ?



Watch Video Solution

58. What happens if the fallopian tubes are partially blocked and the ovulated eggs are prevented from reaching the uterus ?



Watch Video Solution

59. What will happen if there is no mitosis at all in living organisms ?



Watch Video Solution

60. How will you stain a microscopic slide showing mitosis in onion roots ?



Watch Video Solution

61. What happens if the fallopian tubes are partially blocked and the ovulated eggs are prevented from reaching the uterus ?



Watch Video Solution

62. What will happen if there is no mitosis at all in living organisms ?



[Watch Video Solution](#)

63. Identify the given picture. What is the message given by it?



[Watch Video Solution](#)

64. How will you stain a microscopic slide showing mitosis in onion roots ?



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Creative Questions For New Model Paper 2 Mark Questions

1. According to Weismann's prediction, every organism undergoes two kinds of cell divisions. In mitosis, there is no change in chromosomal number ($2n$) and in Meiosis, chromosomal number is reduced to half (n).

(ii) In which cells, Meiosis takes place ?



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2. In Meiosis, the chromosome number in the daughter cells is reduced to half that of their parent cells. Guess, what would happen, if the reduction of chromosome number is not done.



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3. What are the questions you asked the doctor who visited your school to know "the ways of transmission of HIV" ?



[Watch Video Solution](#)

4. Identify the flower parts a,b,c,d and write their main function.



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5. Draw a labelled diagram of sperm.



[Watch Video Solution](#)

6. How we will get the desired useful triats with the help of two selected triats by using grafting method ?



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7. Draw the labelled diagram of Embryo-sac.



Watch Video Solution

8. What questions do you ask a doctor to know about different birth control methods ?



Watch Video Solution

9.

గ్రూపు సంఖ్య	మూలక కుటుంబం పేరు	మూలకాలు		వేలన్సీస్థాయి విన్యాసం	వేలన్సీ విలక్షాణము	సంయోజకత వేలన్సీ
		నుండి	వరకు			
1 (IA)	క్షార లోహాలు	Li	Fr	ns ¹	1	1
2 (IIA)	క్షార మృత్తిక లోహాలు					
13 (IIIA)	బోరాన్ కుటుంబం					
14 (IVA)	కార్బన్ కుటుంబం					
15 (VA)	నైట్రోజన్ కుటుంబం					
16 (VIA)	ఆక్సిజన్ కుటుంబం లేదా చాలోజన్ కుటుంబం					
17 (VIIA)	హాలోజన్ కుటుంబం					
18 (VIIIA)	ఉత్కృష్ట వాయువులు					

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10.

గ్రూపు సంఖ్య	మూలక కుటుంబం పేరు	మూలకాలు		వేలన్సీస్థాయి	వేలన్సీ ఎలక్ట్రాన్లు	సంయోజకత
		నుండి	వరకు	విన్యాసం		వేలన్సీ
1 (IA)	క్షార లోహాలు	Li	Fr	ns ¹	1	1
2 (IIA)	క్షార మృత్తిక లోహాలు					
13 (IIIA)	బోరాన్ కుటుంబం					
14 (IVA)	కార్బన్ కుటుంబం					
15 (VA)	నైట్రోజన్ కుటుంబం					
16 (VIA)	ఆక్సిజన్ కుటుంబం లేదా చాలోజన్ కుటుంబం					
17 (VIIA)	హాలోజన్ కుటుంబం					
18 (VIIIA)	ఉత్కృష్ట వాయువులు					

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11. Write the process involved in seedless fruit development with two suitable examples .

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12. What precautions will you take to keep away from diseases like AIDS and othersexually transmitted diseases ?



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13. Observe the diagram and answer the following questions.

(I) Name male and female reproductive parts of the above figure.



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14. Observe the diagram and answer the following questions.

(II)Write the names of (1) and (2) in the diagram.



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15. Write slogans on 'child marriages - a social evil' .



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16. Write 5 slogans on the prevention of HIV/ AIDS .



Watch Video Solution

17. What is the prevent scenario of HIV infection in Andhra Pradesh and Telangana ?

What are the causes for HIV infection ?



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18. Why do more complex orgaisms not give rise to new individual through regeneration ?



Watch Video Solution

19. What are the advantages of vegetative propagation ?



Watch Video Solution

20. How will an organism be benefited if it reproduces through spores ?



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21. Write the information you got from your teacher about role of different parts in development of embryo.

Chorion,placenta,amnion,alantois are the embryonic membranes.Write their functions in a tabular form.



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22. What causes joining up of stock and scion grafting technique of vegetative propagation in plants ?



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23. How does binary fission differ from multiple fission ?



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24. Why the DNA is copying an essential part of the process of reproduction ?



Watch Video Solution

25. Differentiate between asexual reproduction and sexual reproduction .



Watch Video Solution

26. Differentiate between unisexual and bisexual flower. Give two examples of each .



Watch Video Solution

27. How is the process of pollination different from fertilisation?



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28. If a woman is using a copper-T, will it help in protecting her from Sexually transmitted diseases?



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29. Arjun Tendulkar injured his knees while fielding at ground. The injury was healed after some days . Arjun was eager to know the process behind it . Describe the process involved in wound healing.



Watch Video Solution



Watch Video Solution

30. Write some slogans against female foeticide.



Watch Video Solution

31. What is fission ? Give examples.



Watch Video Solution

32. Write a short notes on fragmentation.



Watch Video Solution

33. What is parthenogenesis ? Give example.



Watch Video Solution

34. Write short note on artificial propagation method cutting.



Watch Video Solution

35. Write about layering. Give example.



Watch Video Solution

36. What are the advantages of grafting?



Watch Video Solution

37. How is tissue culture more beneficial than other traditional methods for artificial propagation of plants ?



Watch Video Solution

38. What is tissue culture ?



Watch Video Solution

39. How does the Rhizopus propagate ?



Watch Video Solution

40. Write a short note on spore formation.



Watch Video Solution

41. How spores are produced in sporangia of fungi ?



Watch Video Solution

42. Write a short note on ovulation.



[Watch Video Solution](#)

43. What is ovulation ? How it occurs ?



[Watch Video Solution](#)

44. What is colostrum ? What is its importance ?



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45. Ramu said that it is very essential to create more awareness in Andhra Pradesh and Telangana on the risk of HIV infection and AIDS . Do you believe support him ? If so, How can you support his statement ?



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46. What happens in a flowering plant if single fertilization only takes place ?



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Creative Questions For New Model Paper 4 Mark Questions

1. Observe the given diagram and answer the following questions .

What are the four main parts of a flower ?



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2. Observe the given diagram and answer the following questions .

(ii) Which parts of the flower produce gametes ?



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3. Observe the given diagram and answer the following questions .

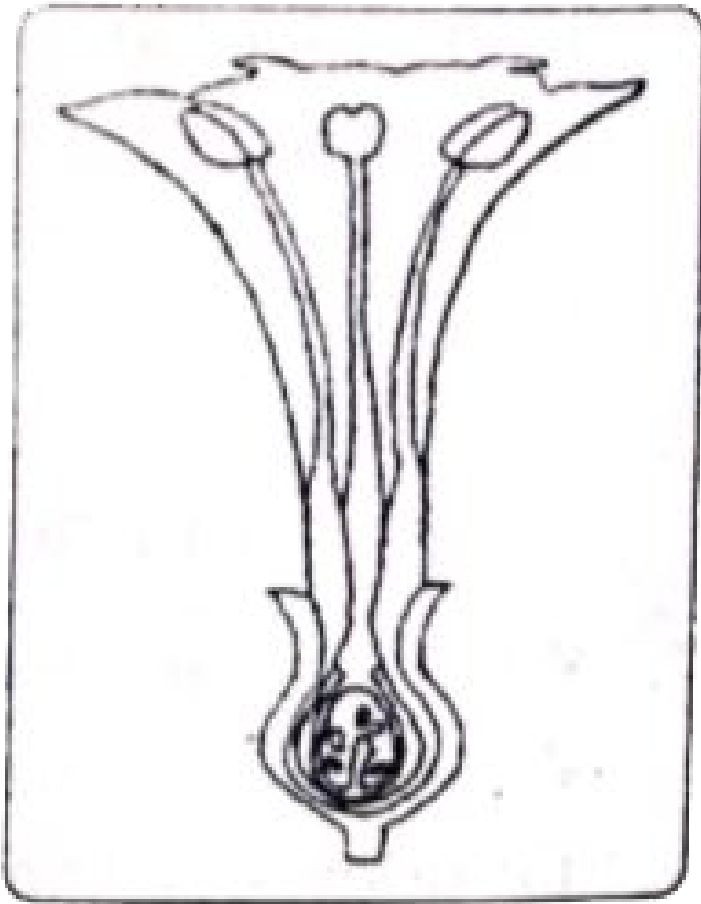
(iii) Which parts of the flower help in pollination ?



Watch Video Solution

4. Observe the given diagram and answer the following questions .

(iv) Which part protect the flower during its bud stage ?



[Watch Video Solution](#)

5. Observe the given diagram and answer the following questions .

(v) Which part of the flower will turn into a fruit in the future ?





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6. Describe the life cycle of a flowering plant with a help of labelled diagrams.



[Watch Video Solution](#)

7. Draw the life history of flowering plant in the form of block diagram.



[Watch Video Solution](#)

8. Analyze the following information and answer the following questions .



(i) What do you call the give reproduction methods ?



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9. What is the major difference between sexual reproduction and vegetative reproduction in plants ?



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10. Potato plants do not produce seeds. How can you propagation this plant ?



[Watch Video Solution](#)

11. What are the advantages of propagating plants with the above methods ?



[Watch Video Solution](#)

12. Explain the formation of fruits and seeds in plants.



[Watch Video Solution](#)

13. What are the methods of artificial propagation ?



Watch Video Solution

14. Observe the following figures and find the stages of cell division and explain.



View Text Solution

15. Mention the stages of mitosis with the help of diagrams . Explain the changes that takes place in Prophase.



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16. Organisms reproduce asexually in many ways. Some of the organisms are given below. Fill the below table based on the collected information about the organism and mode of asexual reproduction in it .

(a) Onion (b) Spirogyra (c) Strawberry (d) Ginger (e) Honey-bee (f) Paramoecium (g) Planaria (h) Yeast



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17. Draw a near labelled diagram of L.S. of flower .



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18. What are the sexual parts in the flower ?



Watch Video Solution

19. What procedure do you follow to understand the effect of plant growth hormones (in agar medium) in the terminal portion of the tip of stem (coleoptile) ?



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20. What are the materials required to prepare and test the hydrogen gas in the lab by using acid and metal ? Where do you observe the evolved hydrogen gas ?



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21. The role of double fertilization in angiosperms is to produce



Watch Video Solution

22. Observe the diagram and answer the following .

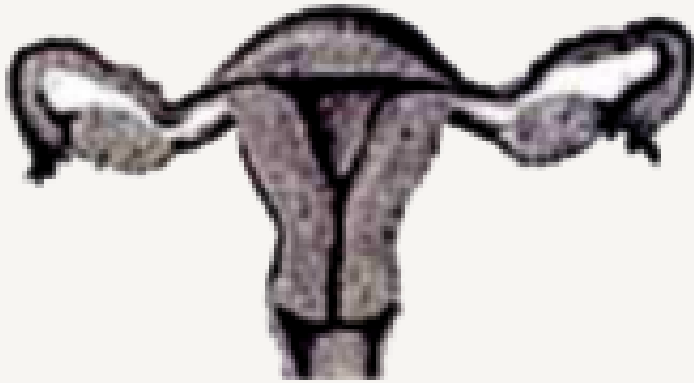
(1) which part produce the female gametes



Watch Video Solution

23. Observe the diagram and answer the following .

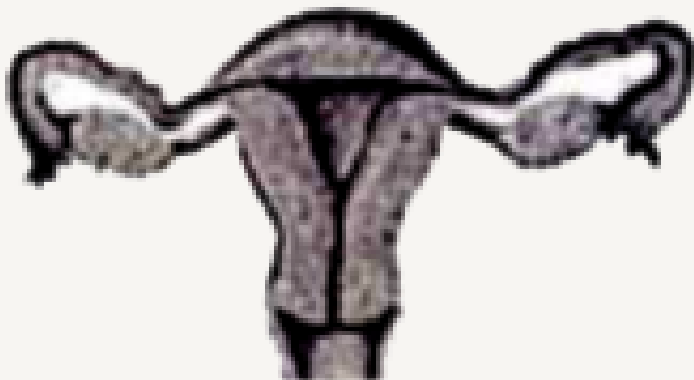
(2) where does the fertilization takes place in female



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24. Observe the diagram and answer the following .

(3) Where does the embryo develops until is the ready to born ?



Watch Video Solution

25. Observe the diagram and answer the following .

(4) in some case doctors' cut and tie the cut ends of the follopians tubes.

What is the name of surgery ?



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26. Read the following table and answer the following questions.

Sl. No.	Structure	Location
1.	Tricuspid valve	Right auriculo-ventricular aperture
2.	Guard cells	Epidermis of leaves
3.	Glomerulus	Nephron
4.	Alveoli	Lungs
5.	Acrosome	Above the head of a sperm.

(i) Name the structure concerned to the heart.



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27. Read the following table and answer the following questions.

Sl. No. No.	Structure	Location
1.	Tricuspid valve	Right auriculo-ventricular aperture
2.	Guard cells	Epidermis of leaves
3.	Glomerulus	Nephron
4.	Alveoli	Lungs
5.	Acrosome	Above the head of a sperm.

(ii) What is the function of acrosome.



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28. Read the following table and answer the following questions.

Sl. No. No.	Structure	Location
1.	Tricuspid valve	Right auriculo-ventricular aperture
2.	Guard cells	Epidermis of leaves
3.	Glomerulus	Nephron
4.	Alveoli	Lungs
5.	Acrosome	Above the head of a sperm.

(iii) Name the structures which are helpful for gaseous exchange.



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29. According to Weismann's prediction, every organism undergoes two kinds of cell divisions. In mitosis, there is no change in chromosomal number ($2n$) and in Meiosis, chromosomal number is reduced to half (n).

(i) What does ' n ' and ' $2n$ ' indicate?



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30. According to Weismann's prediction, every organism undergoes two kinds of cell divisions. In mitosis, there is no change in chromosomal number ($2n$) and in Meiosis, chromosomal number is reduced to half (n).

(ii) In which cells, Meiosis takes place?



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31. According to Weismann's prediction, every organism undergoes two kinds of cell divisions. In mitosis, there is no change in chromosomal number ($2n$) and in Meiosis, chromosomal number is reduced to half (n).

(iii) What happens, if chromosomal number is not reduced in meiosis?



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32. According to Weismann's prediction, every organism undergoes two kinds of cell divisions. In mitosis, there is no change in chromosomal number ($2n$) and in Meiosis, chromosomal number is reduced to half (n).

(iv) Which type of cell division occurs in the skin cells?



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33. Describe different artificial vegetative methods to produce large scale production plants.



[Watch Video Solution](#)

34. Draw a labelled diagram of female reproductive system.



[Watch Video Solution](#)

35. Draw a labelled diagram of female reproductive system.



Watch Video Solution

36. Among the following organisms can we see asexual reproduction .

Write about the method of asexual reproduction in any of the two organisms.

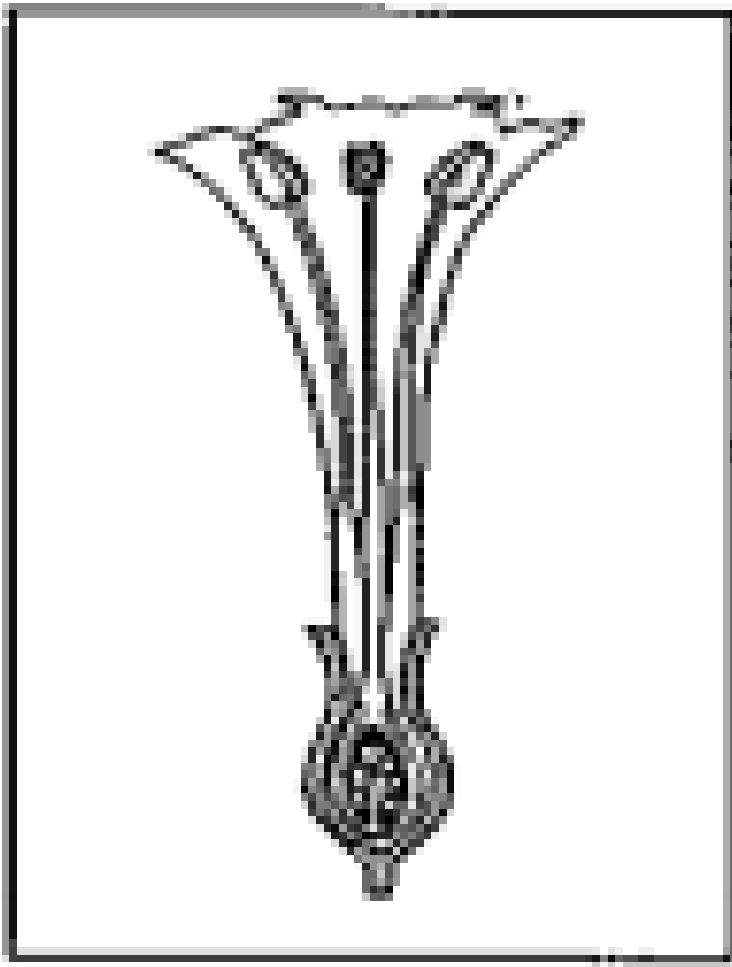
(a) Paramecium (b) Yeast (c) Spirogyra (d) Amoeba (e) Planaria



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37. See the adjacent picture. Which type of pollination will occur in this?

Why do you think so?



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38. Write slogans on 'child marriages - a social evil' .



[Watch Video Solution](#)

39. Describe the structure of male reproductive system in human beings.



Watch Video Solution

40. Describe the structure of male reproductive system in human beings.



Watch Video Solution

41. Describe briefly about the female reproductive system in human beings.



Watch Video Solution

42. Describe the structure of flower with a neatly labelled diagram.



Watch Video Solution

43. Why meiosis is called reduction division?



Watch Video Solution

44. What is contraception ?



Watch Video Solution

45. Describe the developmental stages of human embryo after fertilization with the help of neatly labelled diagrams.



Watch Video Solution

46. What is the significance of meiosis?



Watch Video Solution

47. Illustrate the process of regeneration in planaria with the help of suitable diagram.



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48. What are the consequences if meiosis not happen in the body cells of the organism. ?



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49. Ravi's father wants to cultivate potato in his field . He wants to clarify some doubts with the agriculturals officer. Prepare a list of doubts in form of questions for him .



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50. What procedure do you adopt to see pollen grain with tube ?



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51. Observe the following mitotic cell division diagram and answer the questions given below.



(i) How much time required for G_1 phase ?



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52. Observe the following mitotic cell division diagram and answer the questions given below.



(ii) What is 'S' phase ?



[View Text Solution](#)

53. Observe the following mitotic cell division diagram and answer the questions given below.



(iii) What is G_2 phase ? What change occur during this phase ?



[View Text Solution](#)

54. Observe the following mitotic cell division diagram and answer the questions given below.



(iv) What is 'M' phase ? How much time it required ?



[View Text Solution](#)

55. Observe the following mitotic cell division diagram and answer the questions given below.



(v) How much time required to complete mitotic cell cycles ?



[View Text Solution](#)

56. Draw a labelled diagram of male reproductive system.



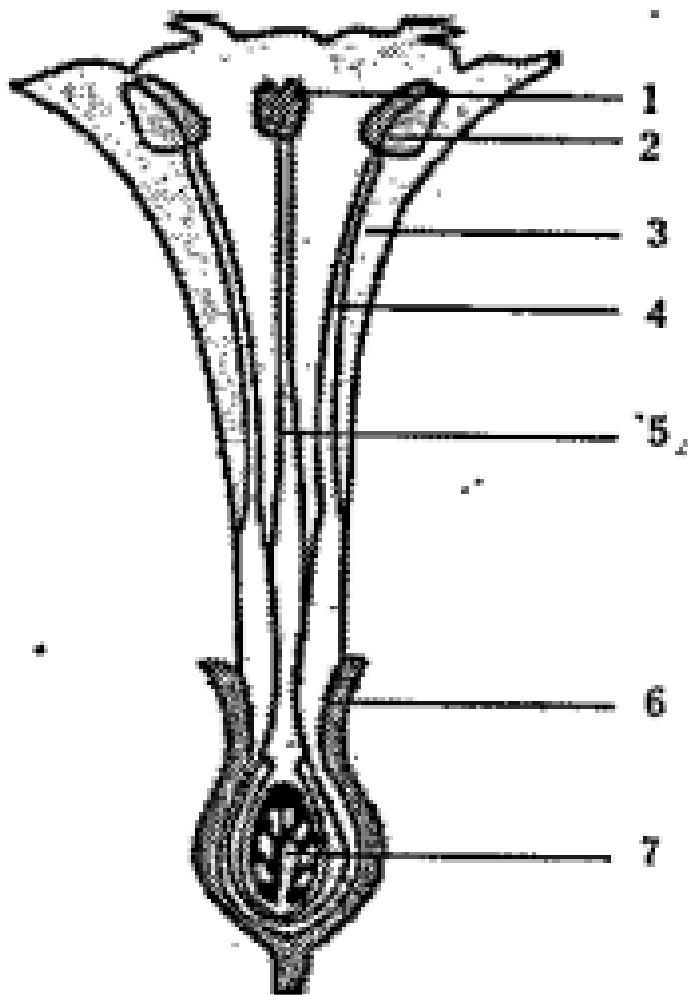
Watch Video Solution

57. Draw the life history of flowering plant in the form of block diagram.



Watch Video Solution

58. Label the parts for given diagram and write functions of labelled parts 1,2,6 and 7.



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59. A person injured, after several days his wound completely healed. What type of process took place at the injured part ? Represent these

atages with diagram.



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60. Write two activities which you are performing to save the electricity.



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61. Describe what life skills one should develop in Adolescent stage.



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62. Government made an act on determining sex through ultrasound scanning and telling it as crime . What do you do to tell this others ?



Watch Video Solution

63. Write briefly about natural vegetative propagation.



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64. All sexually transmitted diseases are completely curable.



[Watch Video Solution](#)

65. Write a short note on Grafting.



[Watch Video Solution](#)