



## BIOLOGY

# BOOKS - CHETANA BIOLOGY (MARATHI ENGLISH)

## Life processes in Living Organisms -2

### Exercise

1. \_\_\_\_\_ divides by simple binary fission.

A. Paramecium

B. Amoeba

C. Euglena

D. Hydra

**Answer:**



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2. \_\_\_\_\_ reproduces by longitudinal binary fission.

A. Paramoecium

B. Amoeba

C. Euglena

D. Hydra

**Answer:**



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**3. Hydra reproduces by\_\_\_\_\_.**

A. binary fission

B. budding

C. fragmentation

D. multiple fission

**Answer:**



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**4.** Which of the following is a mode of asexual reproduction?

A. Multiple fission

B. Spore formation

C. Budding

D. All of these

**Answer:**



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5. For binary fission, Amoeba requires \_\_\_\_\_

parent cells.

A. three

B. two

C. one

D. zero

**Answer:**



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6. Yeast reproduces by\_\_\_\_\_.

A. budding

B. binary fission

C. spore formation

D. multiple fission

**Answer:**



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7. \_\_\_\_\_ reproduces from the buds on the leaf margin.

A. Lotus

B. Hibiscus

C. Bryophyllum

D. Papaya

**Answer:**



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8. \_\_\_\_\_ is present at the tip of the style.

A. Stigma

B. Anther

C. Ovary



D. Ovule

**Answer:**



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9. \_\_\_\_\_ is formed in each ovule by meiosis.

A. Pollen grains

B. Seeds

C. Embryo sac

D. Fruit

**Answer:**



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**10.** Zygote develops at the cost of the food stored in \_\_\_\_\_.

A. endosperm

B. pollen grain

C. fruit

D. ovary

**Answer:**



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**11. Testes secrete the hormone \_\_\_\_\_**

A. progesterone

B. FSH

C. estrogen

D. testosterone

**Answer:**



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12. At the time of birth, there are \_\_\_\_\_ immature oocytes in the ovary of female foetus.

A. 2 - 4 hundred

B. 5 - 6 hundred

C. 2 - 4 million

D. 8 - 10 million

**Answer:**



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13. Menopause occurs at the age of \_\_\_\_\_

A. 18 - 20

B. 45 - 50

C. 20 - 30

D. 18

**Answer:**



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14. Menstrual cycle occurs an interval of every \_\_\_\_\_ days.

A. 44 -18

B. 15 - 20

C. 28 - 30

D. 44 - 54

**Answer:**



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15. In humans, sperm production occurs in the organ \_\_\_\_\_.

- A. epididymis
- B. vas deferens
- C. testes
- D. prostate gland

**Answer:**



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16. In humans, \_\_\_\_\_ chromosome is responsible for maleness.

A. X

B. Y

C. both X and Y

D. autosome

**Answer:**



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17. Implantation of embryo occurs in \_\_\_\_\_.

A. fallopian tube

B. uterus

C. ovary

D. vagina

**Answer:**



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**18.** Body breaks up into several fragments and each fragment starts to live as a new individual. This is \_\_\_\_\_ type of reproduction.

- A. fragmentation
- B. budding
- C. multiple fission
- D. spore formation

**Answer:**



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19. Pollen grains are formed by \_\_\_\_\_  
division in locules of anthers.

A. Mitosis

B. Meiosis

C. binary fission

D. multiple fission

**Answer:**



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20. \_\_\_\_\_ is male whorl and its members are called as stamens.

A. Gynoecium

B. Calyx

C. Androecium

D. corolla

**Answer:**



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21. Reproduction in plants with the help of parts like root, stem, leaf and bud is called as \_\_\_\_\_.

- A. fragmentation
- B. Vegetative propagation
- C. Budding
- D. Sexual reproduction

**Answer:**



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22. Planaria reproduces by \_\_\_\_\_.

A. fragmentation

B. Budding

C. Regeneration

D. Vegetative propagation

**Answer:**



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23. \_\_\_\_\_ present in seminiferous tubules divide by meiosis to produce sperms.

A. Germinal epithelium

B. Endometrium

C. Epididymis

D. Squamous epithelium

**Answer:**



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24. \_\_\_\_\_ is the stoppage of functioning of female reproduction system.

A. Menarche

B. Menopause

C. Andropause

D. Puberty

**Answer:**



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25. Corpus luteum secretes the hormone  
\_\_\_\_\_.

A. testosterone

B. estrogen

C. prolactin

D. progesterone

**Answer:**



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26. If oocyte is not fertilized within 24 hours, corpus luteum becomes inactive and transforms into \_\_\_\_\_.

A. corpus albicans

B. endometrium

C. graffian follicle

D. zygote

**Answer:**



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27. The action of giving birth to young baby is called \_\_\_\_\_.

- A. micturition
- B. parturition
- C. menstruation
- D. lactation

**Answer:**



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28. An organ called as \_\_\_\_\_ is formed for the supply of food material to the embryo in the uterus.

A. placenta

B. endometrium

C. follicle

D. endosperm

**Answer:**



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29. The length of the sperm is about \_\_\_\_\_ micrometre.

A. 200

B. 5

C. 60

D. 800

**Answer:**



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30. Members of calyx are crown as

A. petals

B. sepals

C. stamens

D. carpels

**Answer:**



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**31.** Select the odd man out :

Stigma, style, anther, ovary.



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**32.** Vagina, uterus, testes, ovaries.



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**33.** Bryophyllum, carrot, raddish, Spirogyra.



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34. Rete testes, urinogenital duct, oviduct, epididymis.



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35. Complete the analogy:

Prokaryote: Bacteria :: Protist : \_\_\_\_\_.



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**36.** Complete the analogy:

Paramecium : \_\_\_\_\_ : : Euglena : longitudinal  
binary fission



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**37.** Complete the analogy:

Hydra : Budding : : Bryophyllum : : \_\_\_\_\_



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**38.** Complete the analogy:

Androecium : \_\_\_\_\_ : : Gynoecium : Carpels



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**39.** Complete the analogy:

XX - chromosomes : Female : : \_\_\_\_\_ : male



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**40.** Complete the analogy:

Calyx and corolla L Accessory whorls : :

Androecium and Gynoecium : \_\_\_\_\_.



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**41.** Complete the analogy:

Ovule : Seed : : Ovary : \_\_\_\_\_.



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**42.** Complete the analogy:

Calyx : Sepals :: Corolla : \_\_\_\_\_.



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**43.** Complete the analogy:

Single embryo : Monozygotic twins :: Two embryos : \_\_\_\_\_.



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**44.** Complete the analogy:

Planaria : Regeneration : : Mucor : \_\_\_\_\_.



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**45.** Complete the analogy:

Root, stem, leaf : Vegetative propagation : :

Flower : \_\_\_\_\_.



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46. Complete the analogy:

Length of epididymis : 6 meters :: Length of a sperm : \_\_\_\_\_.



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47. Match the columns:

Column 'A'	Column 'B'
(1) <i>Amoeba</i>	(a) Fragmentation
(2) Yeast	(b) Vegetative propagation
(3) <i>Bryophyllum</i>	(c) Binary fission
(4) <i>Mucor</i>	(d) Budding
	(e) Spore formation



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**48.** Match the columns:

Column 'A'	Column 'B'
(1) FSH	(a) Regeneration of endometrium
(2) Luteinizing hormone	(b) Secretion of endometrial glands
(3) Progesterone	(c) Development of follicle
(4) Estrogen	(d) Ovulation



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49. Match the columns:

Column 'A'	Column 'B'
(1) 44 + XY	(a) Female
(2) 44 + XX	(b) Identical twins
(3) Monozygotic twins	(c) Non-identical twins
(4) Dizygotic twins	(d) Male



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50. State whether the following statements are true or false. Correct the false statements.

Absence of genetic variation is an advantage of asexual reproduction.





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**51.** State whether the following statements are true or false. Correct the false statements.

Binary fission is usually performed by living organisms under favourable conditions.



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**52.** State whether the following statements are true or false. Correct the false statements.

Spirogyra reproduces by regeneration.



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**53.** State whether the following statements are true or false. Correct the false statements.

Diversity in living organisms occurs due to genetic variation.



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**54.** State whether the following statements are true or false. Correct the false statements.

Calyx and corolla are called as essential whorls.



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**55.** State whether the following statements are true or false. Correct the false statements.

Members of calyx are called as petals.



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**56.** State whether the following statements are true or false. Correct the false statements.

Papaya is a bisexual flower.



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**57.** State whether the following statements are true or false. Correct the false statements.

Y-chromosome is present in men and women.



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**58.** State whether the following statements are true or false. Correct the false statements.

After fertilization, ovule develops into seed and ovary into fruit.



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**59.** State whether the following statements are true or false. Correct the false statements.

The minimum age for marriage in India is 18 for girls and boys.





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**60.** State whether the following statements are true or false. Correct the false statements.

Sperm and ovum are formed by mitosis.



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**61.** State whether the following statements are true or false. Correct the false statements.

Fertilization in humans is internal.



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**62.** State whether the following statements are true or false. Correct the false statements.

Approximately 2 - 4 million oocytes are released upto the age of menopause.



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**63.** State whether the following statements are true or false. Correct the false statements.

When polination involves two flowers borne

on the same plant, it is called as cross-pollination.



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**64.** State whether the following statements are true or false. Correct the false statements.

Flowers with stalk are called as sessile.



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**65.** State whether the following statements are true or false. Correct the false statements.

Each embryo sac consists of two haploid egg cells and one haploid polar nuclei.



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**66.** State whether the following statements are true or false. Correct the false statements.

The mother is responsible for a girl child.



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**67.** State whether the following statements are true or false. Correct the false statements.

X-chromosome is present in men and women.



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**68.** State whether the following statements are true or false. Correct the false statements.

Paramecium divides by longitudinal binary fission.



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**69.** Name the following:

Hormones related with male reproductive system.



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**70.** Hormones secreted by ovary of female reproductive system.



**Watch Video Solution**

**71. Types of twins**



**Watch Video Solution**

**72. Any two sexual diseases.**



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**73. Methods of family planning.**



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**74.** Advanced medical techniques for reproduction



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**75.** Hormones that control menstrual cycle



**Watch Video Solution**

**76.** Organs of female reproductive system in human.





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**77.** Organs of male reproductive system in human



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**78.** Four floral whorls.



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**79.** Accesory whorls in a flower



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**80.** Essential whorls in a flower



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**81.** Which are the important life processes in living organism?



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**82.** Which life processes are essential for production of energy required by body?



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**83.** Whether the new organism is genetically exactly similar to earlier one that has produce it?



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**84.** Who determines whether the two organisms of a species will be exactly similar or not?



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**85.** What is gamete formation?



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**86.** When is a flower called bisexual?





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**87.** When a flower is called unisexual?



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**88.** What is pedicel?



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**89.** What are sessile flowers?





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**90.** Which hormone is released from pituitary of mother once the fetal development is completed?



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**91.** Under the effect of that hormone, which organ of the female reproductive system starts to contract and thereby birth process (Parturition) is facilitated?



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**92.** Define or explain the following:

Asexual reproduction



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**93.** Define or explain the following:

Sexual reproduction



**Watch Video Solution**

**94.** Define or explain the following:

Reproduction



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**95.** Define or explain the following:

Vegetative propagation



**Watch Video Solution**

**96.** Define or explain the following:

Regeneration



**Watch Video Solution**

**97.** Define or explain the following:

Pollination



**Watch Video Solution**

**98.** Define or explain the following:

Germination



**Watch Video Solution**

**99.** Define or explain the following:

Menopause



**Watch Video Solution**

**100.** Define or explain the following:

Pedicellate flowers



**Watch Video Solution**

**101.** Define or explain the following:

Sessile flowers



**Watch Video Solution**



**102.** Define or explain the following:

Fertilization



**Watch Video Solution**

**103.** Define or explain the following:

Ovulation



**Watch Video Solution**

**104.** Define or explain the following:

Parturition



**Watch Video Solution**

**105.** Define or explain the following:

Twins



**Watch Video Solution**

**106.** Write short notes:

Multiple Fission



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**107.** Write short notes:

Fragmentation



**Watch Video Solution**

**108.** Write short notes:

Regeneration



**Watch Video Solution**

**109.** Write short notes:

Pollination.



**Watch Video Solution**

**110.** Write short notes:

Surrogacy



**Watch Video Solution**

**111.** Write short notes:

Sperm Bank/Semen Bank



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**112.** Write short notes:

Population Explosion



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**113.** Define or explain the following:

Vegetative propagation



**Watch Video Solution**

**114.** Distinguish between:

Binary fission and Multiple fission



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**115.** Distinguish between:

Human Male and female reproductive system



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**116.** Which are the main types of cell division?

What are the differences?



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**117.** What is the role of chromosomes in cell division?



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**118.** What would have happened if the male and female gametes had been diploid?



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**119.** What would have happened if any of the cells in nature had not been divided by meiosis?



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**120.** Why has the Government of India enacted the law to fix the minimum age of marriage as 18 in girls and 21 in boys?



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**121.** What do we mean by maintenance of species?



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**122.** What is the relationship between the cell division and formation of new organism of the same species by earlier existing organism?



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**123.** Which hormones are responsible for changes in human body during onset of sexual maturity?



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**124.** Does the parent cell exist after asexual reproduction fission?



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**125.** Which different hormones control the functions of human reproductive system through chemical co-ordination?



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**126.** Give an example of limited regeneration



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**127.** How does fertilization take place in humans?



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**128.** New organism has exact genetic similarity with the reproducing organism in asexual

reproduction.



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**129.** Sperm needs large amount of energy



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**130.** There is need of rest alongwith special personal hygiene during menstrual cycle.



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**131.** Explain the concept of IVF



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**132.** Which precautions will you follow to maintain the reproductive health?



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**133.** Draw a neat and labelled diagrams for the following.

## Human male reproductive system



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**134.** Draw a neat and labelled diagrams for the following.

## Human female reproductive system



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**135.** Draw a neat and labelled diagrams for the following.



Flower with its sexual reproductive organs



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**136.** Draw a neat and labelled diagrams for the following.

Menstrual cycle

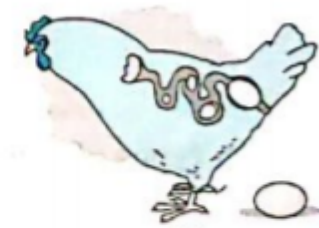


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**137.** Observe the pictures and tell the life process which are identified.



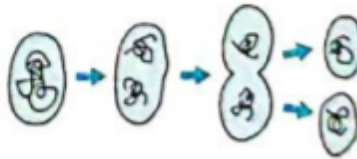
(a)



(b)



(c)



(d)



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**138.** Complete the paragraph with the help of words given in the bracket  
words given in the bracket

Growth of follicles present in the ovary occurs under the effect of \_\_\_\_\_. This follicle secretes

estrogen. \_\_\_\_\_ grows/ regenerates under the effect of estrogen. Under the effect of \_\_\_\_\_ fully grown up follicle bursts, ovulation occurs and \_\_\_\_\_ is formed from remaining part of follicle. It secretes \_\_\_\_\_ and \_\_\_\_\_. Under the effect of these hormones, glands of \_\_\_\_\_ are activated and it becomes ready for implantation.



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139. Observe the figure and answer the following questions:

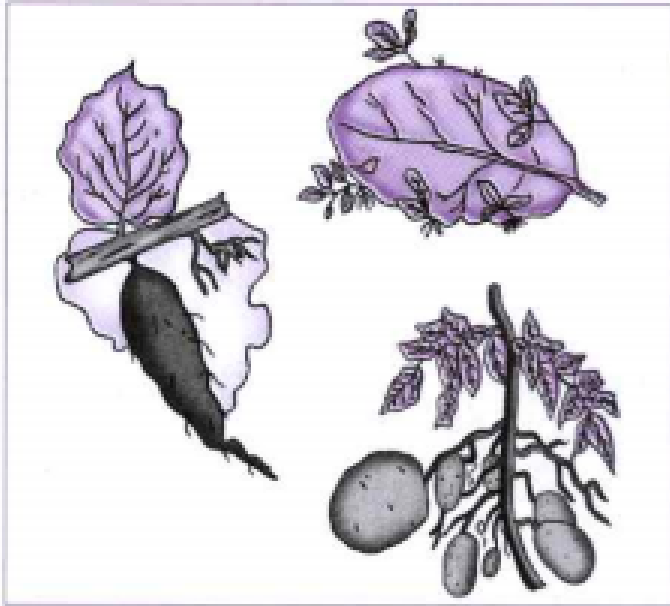


Which method of reproduction is shown in the diagram?



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140. Observe the figure and answer the following questions:



Is it an asexual or sexual method of reproduction? Why?



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141. Observe the figure and answer the following questions:

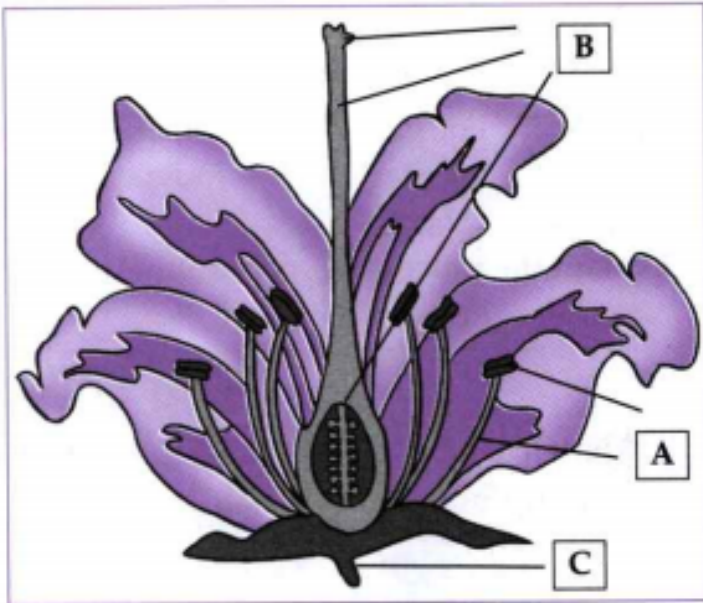


Give examples of plants undergoing this method of reproduction.



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142. Observed the figure and answer the following questions:



Label

the parts.



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**143.** Is the flower unisexual or bisexual? Why?



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**144.** Where are the male and the female gametes present?



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**145.** What is a flower without part called?



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## 146. Hormones that control menstrual cycle



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## 147. Define or explain the following:

Ovulation



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**148.** Under what condition will corpus luteum get transformed into corpus albicans?



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**149.** What is Menstrual cycle? Describe it in brief.



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**150.** In case of sexual reproduction, newborn shows similarities about characters. Explain this statement with suitable example.



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**151.** Gender of child is determined by the male partner of couple. Explain with reasons whether this statement is true or false.



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**152.** Explain asexual reproduction in plants.



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**153.** Explain budding in Yeast.



**Watch Video Solution**

**154.** Explain the process of spore formation.



**Watch Video Solution**

**155.** Describe the process of development and birth in humans.



**Watch Video Solution**

**156.** Any two sexual diseases.



**Watch Video Solution**

**157.** Describe the human male reproductive system with the help of a neat labelled

diagram.



**Watch Video Solution**

**158.** Organs of female reproductive system in human.



**Watch Video Solution**

**159.** Types of twins



**Watch Video Solution**

**160.** Modern techniques like surrogate mother, sperm bank and IVF technique will help the human beings. Justify this statement.



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**161.** Explain sexual reproduction in plants.



**Watch Video Solution**

**162.** Explain with examples types of asexual reproduction in unicellular organisms.

Binary fission



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**163.** Write short notes:

Multiple Fission



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**164.** Explain budding in Yeast.



**Watch Video Solution**

**165.** Explain budding in Hydra.



**Watch Video Solution**

**166.** Choose the correct option and rewrite the complete statement.

Yeast reproduces by \_\_\_\_\_.

A. budding

B. binary fission

C. spore formation

D. multiple fission

**Answer:**



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**167.** Choose the correct option and rewrite the complete statement.

Testes secretes the hormone \_\_\_\_\_.

A. progesterone

B. FSH

C. estrogen

D. testosterone

**Answer:**



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**168.** Answer the following .

Say True or False: Papaya is a bisexual flower.



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**169.** Types of twins

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**170.** Select odd man out: Stigma, style, anther,  
ovary.

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171. Write short notes:

Regeneration



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172. Complete the following table

Female Reproductive System Hormone  
function

Hormone	Functions
(i) _____	(i) Endometrium develops or regenerates.
(ii) _____	(ii) Follicles in the ovary develop.
(iii) _____	(iii) Endometrial glands secrete their secretions.
(iv) _____	(iv) Ovulation where oocyte is released.



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**173.** Explain the concept of IVF



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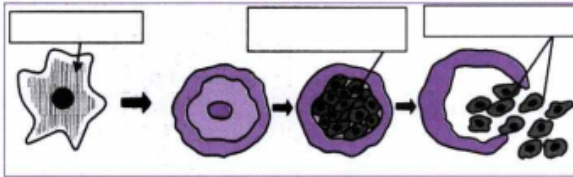
**174.** Answer the following

Give 3 points of differentiation between Asexual and Sexual methods of reproduction.



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**175.** Complete the given figure and explain the method of reproduction.



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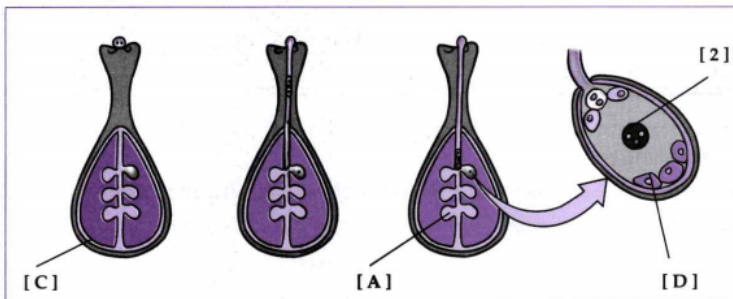
**176.** A lady in a village was blamed to deliver a baby girl for the third time and was ill-treated by her family. Do you think that the blame was right? Explain with reason.





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177. Observe the figure and answer the following questions.



(i) Label

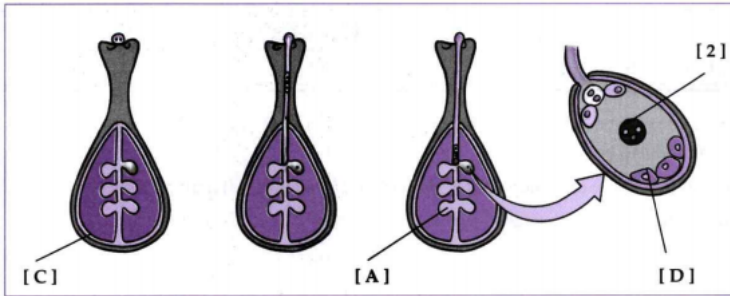
and (D)



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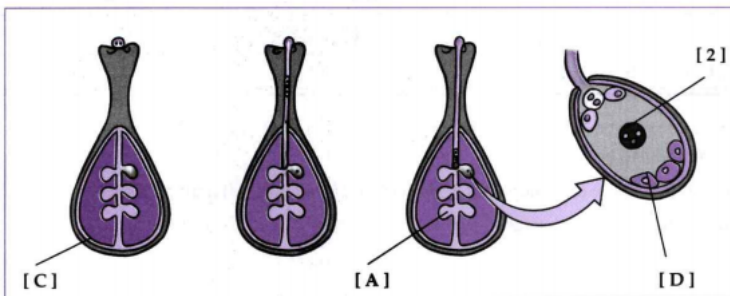


178. What process is shown in the diagram?



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179. Explain the process





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**180.** The work of Haemoglobin in body is

- A. Transportation of oxygen
- B. Destruction of bacteria
- C. Stopping Anemia
- D. Use of iron

**Answer:**



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