



BIOLOGY

BOOKS - CHETAN BIOLOGY (TAMIL ENGLISH)

LIFE PROCESSES IN LIVING ORGANISM PART-2

**Fill In The Blanks And Rewrite The Completed
Statement**

1. In humans , sperm production occurs in the organ _____



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2. In humans, _____ chromosomes is responsible for maleness.



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3. In male and female reproductive system of human, _____ gland is same.



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4. Implantation of embryo occurs in _____



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5. _____ type of reproduction occurs without fusion of gametes.



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6. Body breaks up into several fragments and each fragment starts to live as a new individual . This is _____ type of reproduction.



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7. Pollen grains are formed by _____ division in locules of anthers .





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8. Yeast cell produces two daughter nuclei by _____ division.



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9. The zygote divides by mitosis and _____ is formed.



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10. _____ breaks open on arrival of favourable condition and many amoebulae are released .



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11. _____ and digestive cavity of the budding Hydra are in continuity with those of parent Hydra.



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12. A _____ is formed in the process of fertilization by union of haploid male and female gametes.



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13. _____ is male whorl and its members are called as stamens.



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14. Embryonic development is completed approximately within _____ after the fertilization .



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15. Encysted Amoeba or any other protist is called _____



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



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17. Planaria reproduced by -----



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18. Fungi like _____ have filamentous body.



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19. In _____, chromosome number is reduced to half .



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20. _____ is the structural unit of sexual reproduction in plants .



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21. _____ are called essential whorls.



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22. Many flowers have stalk for support called as _____



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23. Members of gynoecium are called as _____



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24. _____ is present at the tip of the style.



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25. Testes contain numerous _____.



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26. _____ present in seminiferous tubules divide by meiosis to produce sperms.



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27. _____ is the stoppage of functioning of female reproduction system.



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28. The two main methods of reproduction are _____ and _____



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29. Cell organelles like _____ and _____ perform asexual reproduction by binary fission.



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30. A flower is called as _____ if both whorls i.e., androecium and gynoecium are present in the same flower .



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31. Formation of zygote by union of sperm and ovum is called as _____



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32. An organ called as _____ is formed for the supply of food material to the embryo in the uterus .



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33. Endometrium of the uterus starts to develop or regenerate under the effect of _____



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34. Corpus luteum secretes the hormone _____



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35. In _____ technique , fertilization is brought about in test tube .



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36. Women who have problem in implantation of embryo in uterus can take the help of modern technique called _____.



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37. Twins formed from single embryo are called _____ twins.



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38. If embryonic cells are divided into two groups, 8 days after the zygote formation , there is high possibility of formation of ____



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39. A person's state of physical mental and social strongness is called as _____



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40. If oocyte is not fertilized within 24 hours , corpus luteum becomes inactive and transforms into _____



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41. In plants, second male gametes fuses with two polar nuclei to form.



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42. Testes are present in the _____ outside the abdominal cavity .



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43. _____ is formed of sperms and the secretions of prostate glands, cowper's glands and seminal vesicles.



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44. The action of giving birth to young baby is called _____.



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45. All the organs of male reproductive system are paired except urinogenital duct , penis and _____



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1. Stigma , style, anther , ovary .



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2. Vagina , uterus, testes, ovaries .



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3. Bryophyllum, carrot , raddish, Spirogyra.



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



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Complete The Analogy

1. Prokaryote: Bacteria:: Protist: _____



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2. Paramoecium : _____ :: Euglena : longitudinal

binary fission



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3. Hydra: Budding :: Bryophyllum :: _____



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4. Androecium : _____ :: Gynoecium :

Carpels



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5. XX-chromosomes : Female :: _____ : male



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6. Calyx and Corolla : Accessory whorls ::

Androecium and Gynoecium : _____



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7. Ovule: Seed :: Ovary : _____



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8. Calyx : Sepal :: Corolla : _____



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9. Single embryo : Monozygotic twins :: Two embryos : _____



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10. Planaria : Regeneration :: Mucor : _____



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11. Root, stem, leaf: Vegetative propagation ::

Flower : _____



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12. Length of epididymis : 6 meters :: Length of

a sperm : _____



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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

1.



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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

2.



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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

3.



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State Whether The Following Statements Are True Or False Correct The False Statements

1. Absence of genetic variation is an advantage of asexual reproduction .



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





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3. Spirogyra reproduces by _____



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4. Diversity in living organism occurs due to genetic variation .



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5. Calyx and corolla are called as essential whorls.



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6. Members of calyx are called as petals.



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7. Papaya is a bisexual flower.



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8. Y-chromosomes is present in men and women.



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



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



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11. Sperm and ovum are formed by mitosis.



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12. Fertilization in humans is internal.



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



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14. When pollination involves two flowers borne on the same plant , it is called as cross-pollination.



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15. Flowers with stalk are called as sessile.



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16. Each embryo sac consists two haploid egg cell and one haploid polar nuclei.



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17. The mother is responsible for a girl child.



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18. X-chromosomes is present in men and women.



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19. Paramecium divides by longitudinal binary fission.



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Name The Questions

1. Hormones related with male reproductive system



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2. Hormones secreted by ovary of female reproductive system.



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3. Type of twins



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4. Any two sexual diseases .



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5. Methods of family planning



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6. Advanced medical techniques for reproduction



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7. Hormones that control menstrual cycle.



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8. Organs of female reproductive system in human.



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9. Organs of male reproductive system in human



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10. Four floral whorls.



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11. Accessory whorls in a flower .



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12. Essential whorls in a flower .



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Answer In One Sentence

1. Which are the important life processes in living organisms ?



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



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3. Whether the new organism is genetically exactly similar to earlier one that has produced it ?



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4. Who determines whether the two organism of a species will be exactly similar or not ?



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5. What is gamete formation ?



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6. When is a flower called bisexual ?



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7. When a flower is called unisexual ?



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8. What is pedicel ?



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9. What is a sessile flower?



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



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11. Under 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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Choose And Write The Correct Option

1. _____ divides by simple binary fission .

A. Paramecium

B. Amoeba

C. Euglena

D. Hydra

Answer: B



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2. _____ reproduces by longitudinal binary fission.

A. Paramecium

B. Amoeba

C. Euglena

D. Hydra

Answer: C



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3. Hydra reproduces by _____

- A. (a) binary fission
- B. (b) budding
- C. (c) fragmentation
- D. (d) multiple fission.

Answer: B



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

A. (a) Multiple fission

B. (b) Spore formation

C. (c) Budding

D. (d) All of these

Answer: D



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5. For binary fission, Amoeba requires _____ parent cells.

A. (a) Three

B. (b) Two

C. (c) one

D. (d) zero

Answer: C



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6. Yeast reproduces by _____

A. (a) budding

B. (b) binary fission

C. (c) spore formation

D. (d) multiple fission.

Answer: A



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7. _____ reproduces from the buds on the leaf margin .

A. (a) Lotus

B. (b) Hibiscus

C. (c) Bryophyllum

D. (d) Papaya .

Answer: C



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8. _____ is present at the tip of the style.

A. (a) Stigma

B. (b) Anther

C. (c) Ovary

D. (d) Ovule

Answer: A



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9. _____ is present in each ovule by meiosis.

A. (a) Pollen grains

B. (b) Seeds

C. (c) Embryo sac

D. (d) Fruit

Answer: C



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10. Zygote develops at the cost of the food stored in _____

A. (a) endosperm

B. (b) pollen grain

C. (c) fruit

D. (d) ovary

Answer: A



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11. Testes secrete the hormone _____

A. (a) progesterone

B. (b) FSH

C. (c) estrogen

D. (d) testosterone

Answer: D



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12. At the time of birth , there are _____
immature oocytes in the ovary of females
foetus.

A. (a) 2-4 hundred

B. (b) 5-6 hundred

C. (c) 2-4 million

D. (d) 8-10 million

Answer: C



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13. Menopause occurs at the age of _____
years.

A. (a) 18-20

B. (b) 45-50

C. (c) 20-30

D. (d) 18

Answer: B



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14. Menstrual cycle occurs at an interval of every _____ days .

A. $8 - 10$

B. $15 - 20$

C. $28 - 30$

D. $6 - 7$

Answer: C



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Define Or Explain

1. Asexual reproduction



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2. Sexual reproduction



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



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4. Vegetative propagation .



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5. Regeneration



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6. Pollination



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7. Germination



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8. Menopause



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9. Pedicellate flowers



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[Watch Video Solution](#)

10. Sessile flowers



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11. Fertilization



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12. Ovulation



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13. Parturition



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14. Twins



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[Short Notes](#)

1. Multiple fission



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2. Fragmentation



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3. Regeneration



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4. Pollination



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5. Surrogacy



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6. Sperm Bank/Semen Bank



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7. Population Explosion



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8. Vegetative propagation .



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Distinguish Between

1. Binary fission and Multiple fission



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2. Human Male and female reproductive system



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Answer The Questions

1. Which are the main types of cell division ?

What are the differences ?





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2. What is the role of chromosomes in cell division ?



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



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



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



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6. What do we mean by maintenance of species ?



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



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9. Does the parent cell exist after sexual reproduction by fission ?



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10. Which different hormones control the functions of human reproduction system through chemical co-ordination ?



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11. Give an example of limited regeneration .



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12. How does fertilization take place in humans ?



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Explain The Questions

1. Explain the concept of IVF.



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



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Draw A Neat And Labelled Diagrams

1. Describe the human male reproductive system with the help of a neat labelled diagram.



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2. Organs of female reproductive system in human.



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3. Flower with its sexual reproductive organs



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4. What is Menstrual cycle? Describe it in brief.

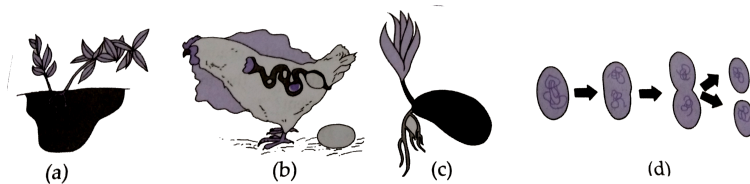




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Observe The Picture

1. Observe the picture and tell and life process which you identified .



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Complete The Paragraph

1. Complete the paragraph with the help of words given in the bracket .

(Luteinizing hormone , endometrium of uterus , follicle stimulating hormone , estrogen , progesterone , corpus luteum, Ovarian follicle along with oocyte)

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 burst , ovulation occurs and _____ is formed from

remaining part of follicle. It secretes _____
and _____. Under the effect of hormones ,
glands of _____ are activated and it
becomes ready for implantation. .



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Complete The Chart

1. Complete the chart



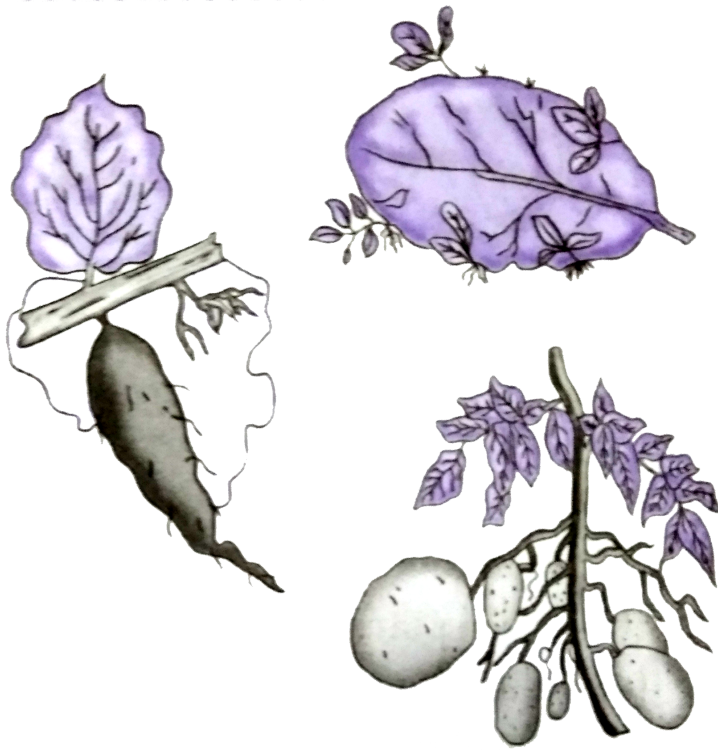
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2. Complete the chart



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Observe The Figure

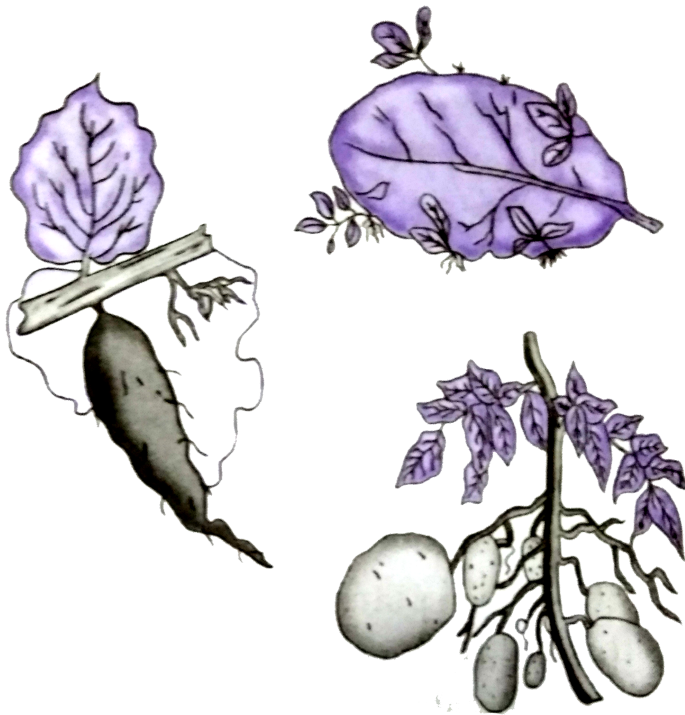


1.

Which method of reproduction is shown in the diagram?



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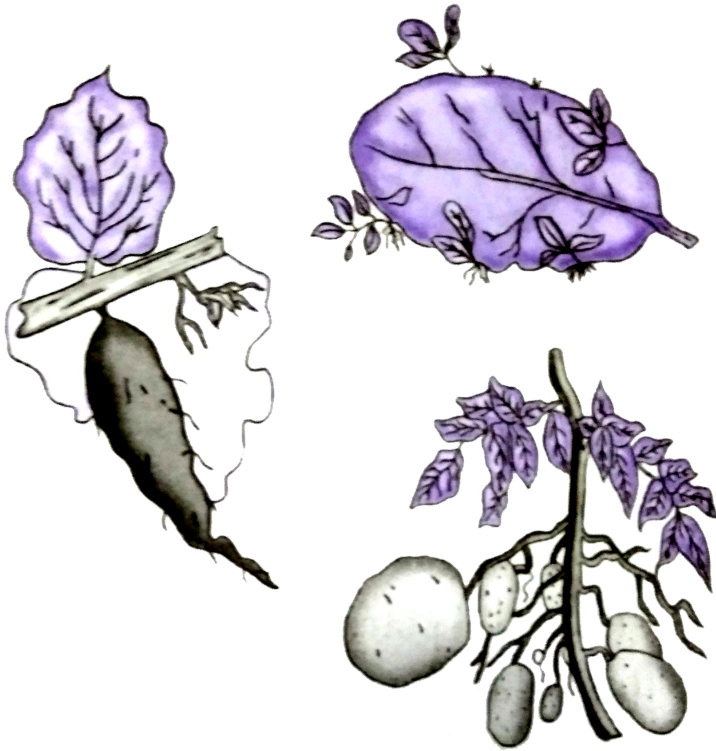


2.

It is an asexual or sexual method of reproduction ? Why?



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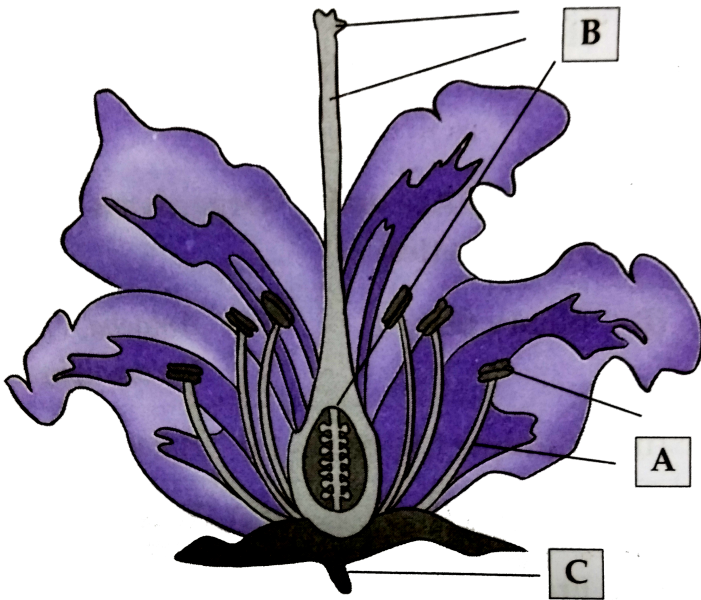


3.

Give example of plant undergoing this method of reproduction ?



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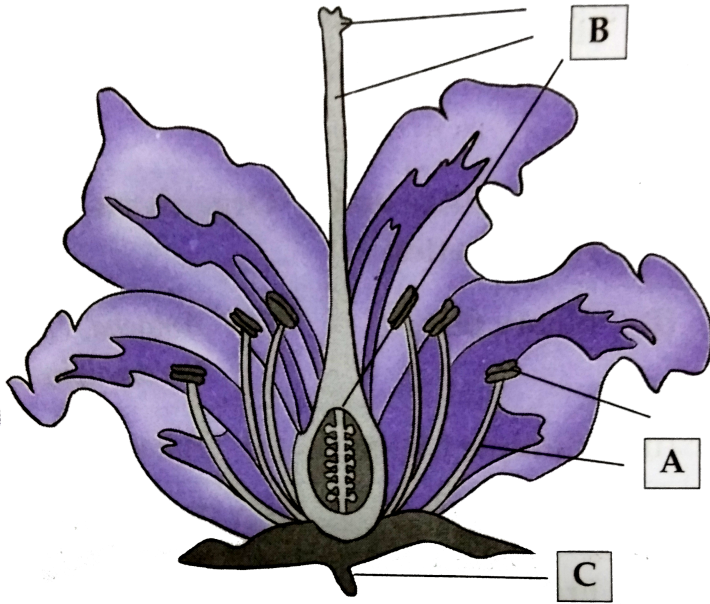


4.

(a) Label the parts (A),(B) and (C)



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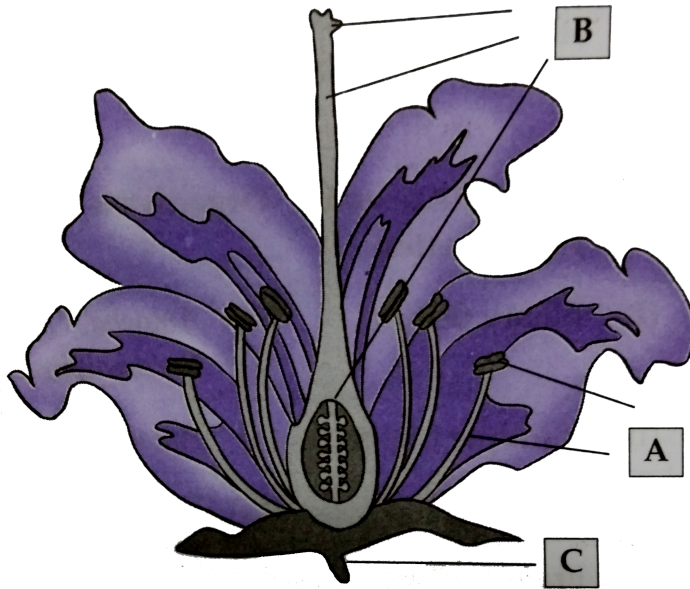


5.

Is this flower unisexual or bisexual ? Why?



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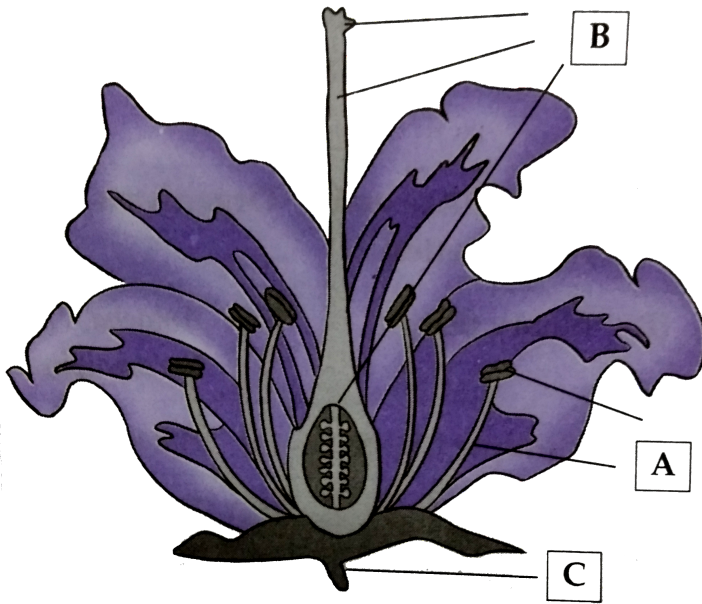


6.

Where are the male and the female gametes present ?



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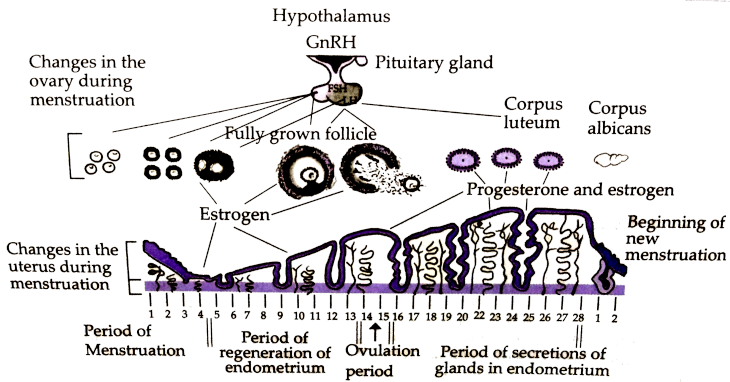


7.

What is a flower without part (C) called ?



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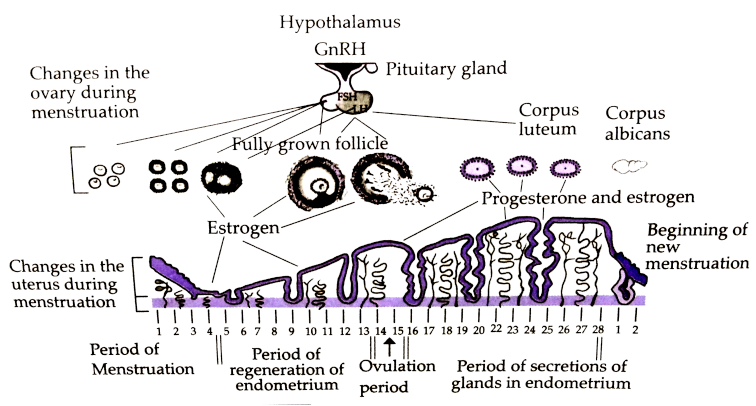


8.

Name the hormones involved in menstrual cycle .



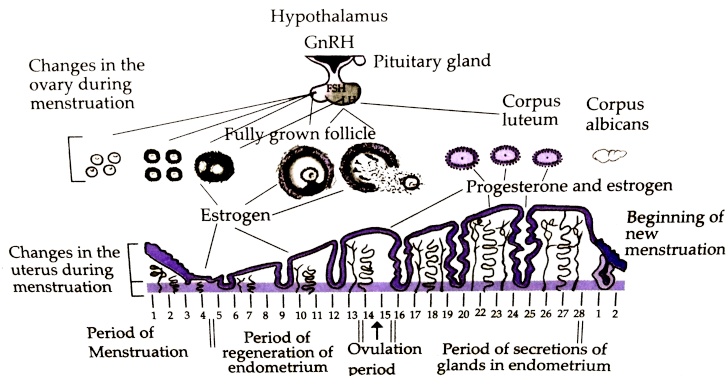
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9.

What is the meaning of ovulation ?

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10.

Under what condition will corpus luteum get transformed into corpus albicans ?



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Answer In Detail

1. What is Menstrual cycle? Describe it in brief.



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2. In case of sexual reproduction , newborn shows similarities about character . Explain this statement with suitable example .



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3. 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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4. Explain the asexual reproduction in Rhizopus.



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5. Explain budding in Yeast .



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6. Explain the process of spore formation.



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7. Describe the process of development and birth in humans.



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8. Name two common sexual diseases. What are their symptoms ?



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9. Describe the human male reproductive system with the help of a neat labelled diagram.



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10. Human Male and female reproductive system



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11. What are twins ? What are their types ?



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



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13. Sexual reproduction



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14. Explain with examples types of asexual reproduction in unicellular organisms.



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15. Explain budding in Hydra.



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Assignment 3 Answer The Following

1. Fill in the blanks .

Implantation of embryo occurs in



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2. Give name of : Types of twins.



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3. Select odd man out: Stigma , style, anther , ovary .



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Assignment 3 Choose And Write The Correct Option

1. Yeast reproduces by _____

A. (a) budding

B. (b) binary fission

C. (c) spore formation

D. (d) multiple fission.

Answer:



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2. Testes secrete the hormone _____

A. (a) progesterone

B. (b) FSH

C. (c) estrogen

D. (d) testosterone

Answer:



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Assignment 3 Answer The Following

1. What is regeneration ? Give an example of limited regeneration .



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2. 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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3. Write short note on : IVF.

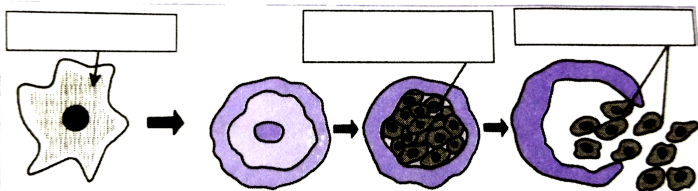


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4. Give 3 points of differentiation between Asexual and Sexual methods of reproduction .

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5. Complete the given figure and explain the method of reproduction.



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6. 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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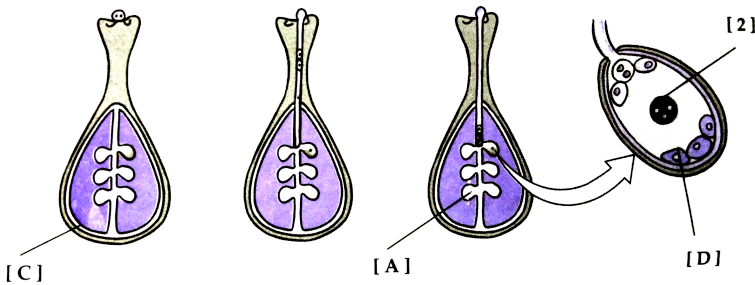
7. Draw a labelled diagram of male reproductive system.



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Assignment 3 Answer In Detail

1. Observe the figure and answer the following questions.



(i) Label (A) to (D)

(ii) What process is shown in the diagram ?

(iii) Explain the process



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