



# **BIOLOGY**

## **BOOKS - SURA BIOLOGY (TAMIL ENGLISH)**

### **REPRODUCTION IN PLANTS AND ANIMALS**

**Textbook Evaluation Choose The Correct Answer**

1. The plant which propagates with the help of its leaves is \_\_\_\_\_.

A. onion

B. Neem

C. Ginger

D. Bryophyllum

**Answer: D**



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2. Asexual reproduction takes place through budding in \_\_\_\_\_.

A. Amoeba

B. yeast

C. plasmodium

D. Bacteria

**Answer: B**



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3. Syngamy results in the formation of \_\_\_\_\_.

A. Zoospores

B. Conidia

C. Zygote

D. chlamydospores

**Answer: C**



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4. The essential parts of a flower are \_\_\_\_\_.

A. calyx and corolla

B. calyx and androecium

C. corolla and gynoecium

D. Androecium and Gynoecium

**Answer: D**



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5. Anemophilous flowers have \_\_\_\_\_.

- A. sessile stigma
- B. small smooth stigma
- C. Ccolored flower
- D. Large feathery stigma

**Answer: D**



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6. Male gametes in anghiosperms are formed by the division of \_\_\_\_\_.

A. Generative cell

B. Vegetative cell

C. Microspore mother cell

D. Microspore

**Answer: A**



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7. What is true of gametes ?

A. They are diploid

B. They give rise to gonads .

C. They produce hormones

D. they are formed from gonads .

**Answer: D**



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8. A single highly coiled tube where sperms are stored , get concentrated and mature is known as \_\_\_\_\_.

A. Epididymis

B. Vasa efferentia

C. Vas deferens

D. Seminiferous tubules

**Answer: A**



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9. The large elongated cells that provide nutrition to developing sperms are \_\_\_\_\_.

A. Primary germ cells

B. Sertoli cells

C. Leydig cells

D. Spermatogonia

**Answer: B**



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10. Estrogen is secreted by \_\_\_\_\_.

A. Anterior pituitary

B. Primary follicle

C. Graafian follicle

D. Corpus luteum

**Answer: C**



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11. Which one of the following is an IUCD ?

A. Copper -T

B. Oral pills

C. Diaphragm

D. Yubectomy

**Answer: A**



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**Textbook Evaluation Fill In The Blanks**

1. The embryo sac in a typical dicot at the time of fertilization is \_\_\_\_\_.



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2. After fertilization , the ovary develops into \_\_\_\_\_.



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3. Planaria reproduces asexually asexully by

\_\_\_\_\_.



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4. Fertilization is \_\_\_\_\_ in humans.



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5. The implantation of the embryo occurs at about \_\_\_\_ day of fertillizatiion .



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6. \_\_\_\_\_ is the first secretion from the mammary gland after child birth .



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7. Prolactin is a hormone produced by \_\_\_\_\_.



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1. 



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**Textbook Evaluation State Whether True Or False  
If False Write The Correct Statement**

1. Stalk of the ovule is called pedicel .



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2. Seeds are the product of asexual reproduction .



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3. Yeast reproduces asexually by means of multiple fission .



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4. The part of the pistil which serves as a receptive structure for the pollen is called as

style.



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5. Insect pollinated flowers are characterized by dry and smooth pollen.



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6. Sex organs produce gametes which are diploid .



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7. LH is secreted by the posterior pituitary .



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8. Menstrual cycle ceases during pregnancy .



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9. Surgical methods of contraception prevent gamete formation .



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**10.** The increased level of estrogen and progesterone is responsible for menstruation .



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**Textbook Evaluation Answer In A Word Or Sentence**

1. IF one pollen grain produces two male gametes how many pollen grains are needed to fertilize 10 Ovules?



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2. In which part of the flower germination of pollen grains takes place ?



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3. Name two organisms which reproduces through budding .



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4. Mention the function of endosperm.



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5. Name the hormone responsible for the vigorous contractions of the uterine muscles .



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6. What is the enzyme present in acrosome of sperm ?



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7. When is world Menstrual Hygiene Day observed ?



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8. What is the need for contraception ?



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9. Name the part of the human female reproductive system where the following occurs .

Fertilization



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10. Name the part of the human female reproductive system where the following occurs .

Implantation



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## Textbook Evaluation Short Answer Question

1. What will happen if you cut planaria into small fragments ?



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2. Why is vegetative propagation practiced for growing some type of plants?



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3. How does binary fission differ from multiple fission ?



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4. What is triple fusion ?



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5. Write the characteristics of insect pollinated flowers.



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6. Name the secondary sex organs in male



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7. What is colostrum ? How is milk production hormonally regulated ?



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8. How can menstrual hygiene be maintained during menstrual days?



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9. How does developing embryo gets its nourishment inside the mother's body ?



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10. Identify the parts A,B,C and D .



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**11.** Write the events involved in the sexual reproduction of a flowering plant .

Discuss the first event and write the types .



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**12.** Mention the advantages and disadvantages of self pollination and cross pollination.



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**13.** Why are the human testes located outside the abdominal cavity ? Name the pouch in which they are present .



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**14.** The \_\_\_\_\_ phase of menstrual cycle is also called secretory phase



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15. Why are family planning methods not adopted by all people of our country?



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## Textbook Evaluation Long Answer Question

1. \_\_\_\_\_ is a basal part of the Ovule ,



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2. Explain the various phases of the menstrual cycle.



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## Textbook Evaluation Higher Order Thinking Skills Hots

1. In angiosperms, the pollen grain germinates to produce pollen tube that carries two gametes what is the purpose of carrying two

gametes when single gamete can fertilize the egg ?



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2. Why menstrual cycle does not take place before puberty and during pregnancy ?



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3. Read the following passage and answer the questions that follow

Rahini and her parents were watching a television programme . An advertisement flashed on the screen which was promoting use of sanitary napkins . Rahini's parents suddenly changed the channel , but she objected to her parents and explained the need and importance of such advertisement .

What is first menstruation called ? when does it occur?



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4. Read the following passage and answer the questions that follow

Rahini and her parents were watching a television programme . An advertisement flashed on the screen which was promoting use of sanitary napkins . Rahini's parents suddenly changed the channel , but she objected to her parents and explained the need and importance of such advertisement .

List out the napkin hygiene measures taken during menstruation ?



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5. Read the following passage and answer the questions that follow

Rahini and her parents were watching a television programme . An advertisement flashed on the screen which was promoting use of sanitary napkins . Rahini's parents suddenly changed the channel , but she objected to her parents and explained the need and importance of such advertisement .

Do you think that Rahini's objection towards her parents was correct ? If so , why ?



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## Additional Question Answers Choose The Correct Answer

1. Fragmentation is seen in \_\_\_\_\_.

A. Spirogyra

B. Bryophyllum

C. Yeast

D. Hydra

**Answer: A**



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2. Regeneration is seen in \_\_\_\_\_.

A. Plasmodium

B. Spirogya

C. Hydra

D. Amoeba

**Answer: C**



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3. The pollen is produced in \_\_\_\_\_.

A. Filament

B. Anther

C. Ovule

D. Stigma

**Answer: B**



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4. There are \_\_\_\_\_ polar nuclei in the embryo sac .

A. 2

B. 3

C. 4

D. 1

**Answer: A**



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5. After fertilization , the \_\_\_\_\_ degenerates in embryo sac .

A. Ovule

B. Polar nuclei

C. antipodals

D. Endosperm

**Answer: C**



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6. Endometrium is prepared for implantation in \_\_\_\_\_.

- A. Follicular phase
- B. Ovulatory phase
- C. Luteal phase
- D. Menstrual phase

**Answer: C**



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7. \_\_\_\_\_ takes place after implantaion .

A. Cleavage

B. Fertilization

C. Gastrulation

D. Organogenesis

**Answer: C**



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8. The hormone \_\_\_\_\_ produced by anterior pituitary plays a major role in lactation.

A. Oxytocin

B. Prolactin

C. Progestone

D. oestrogen

**Answer: B**



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9. Pollination with the help of insects like honey bees , flies are called \_\_\_\_\_.

A. Entomophily

B. Anemophily

C. Hydrophily

D. Zoophily

**Answer: A**



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10. Approximately \_\_\_\_\_ of the pollination done by the insects is carried by honey bees ,

A. 70 %

B. 80 %

C. 50 %

D. 60 %

**Answer: B**



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11. \_\_\_\_\_ is a basal part of the Ovule ,

A. Chalaza

B. Micropyle

C. Nucellus

D. Funiculus

**Answer: A**



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12. An outgrow aries on the parent body during \_\_\_\_\_.

A. Fragmentation

B. Fission

C. Budding

D. Regeneration

**Answer: C**



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13. Squirrels pollinate flowers of \_\_\_\_\_.

A. Canna

B. Gladioli

C. Silk cotton tree

D. Hydrilla

**Answer: C**



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14. Each stamen consists of a small bag like structure called \_\_\_\_\_.

A. Anther

B. Filament

C. Pollen grain

D. Gempore

**Answer: A**



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15. The process of spermatogenesis takes place in the \_\_\_\_\_.

- A. Sertoli cells
- B. Seminiferous tubules
- C. Leydig cells
- D. Centrioles

**Answer: B**



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16. Normal gestation period of human last for about \_\_\_\_\_ days.

A. 280

B. 380

C. 480

D. 580

**Answer: A**



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17. During pregnancy , the uterus expands upto \_\_\_\_\_ times of its normal size .

A. 500

B. 600

C. 400

D. 200

**Answer: A**



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18. The implantation of the embryo occurs at about \_\_\_\_ day of fertilization .

A. 5 – 7 days

B. 5-6 days

C. 6-7 days

D. 5-8 days

**Answer: C**



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19. An oocyte remains alive for \_\_\_\_\_ hours .

A. 24 hours

B. 12 hours

C. 15 hours

D. 20 hours

**Answer: A**



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20. \_\_\_\_\_ has been one of the first country in the world to launch the nation wide family planning programme in 1952.

A. India

B. China

C. America

D. Africa

**Answer: A**



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21. \_\_\_\_\_ from the posterior pituitary stimulates the uterine contractions .

A. Oxytocin

B. Insulin

C. Estrogen

D. Prolactin

**Answer: A**



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22. Which is an example of self - pollination .

A. Hibiscus

B. Grasses

C. Apples

D. Rose

**Answer: A**



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23. \_\_\_\_\_ is a disc shaped structure .

A. Uterus

B. Placenta

C. Ovary

D. sperm

**Answer: B**



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**24.** Lack of menstruation generally indicates

\_\_\_\_\_.

A. Pregnaancy

B. Anemia

C. Amenorrhea

D. Over weight

**Answer: A**



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**25.** The uterus prepares itself to receive the fertilized egg every \_\_\_\_\_.

A. year

B. Day

C. Week

D. Month

**Answer: D**



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**26. What is colostrum ? How is milk production hormonally regulated ?**

A. Prolactin

B. Insulin

C. Oxytocin

D. Estrogen

**Answer: A**



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**27.** The ejection of milk stimulated by posterior pituitary hormone called \_\_\_\_\_.

A. Prolactin

B. Insulin

C. Oxytocin

D. Estrogen

**Answer: C**



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**28.** Changes in the ovary and the uterus are induced by the \_\_\_\_\_.



A. LH & FSH

B. TRH & TSH

C. MSH & TRH

D. GH & PRH

**Answer: A**



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**29.** Breaking of filaments in an algae into many fragments is called \_\_\_\_\_.

A. Fission

B. Fragmentation

C. Budding

D. Regeneration

**Answer: B**



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**Additional Question Answers Fill In The Blanks**

1. The tuberous roots of \_\_\_\_\_ are used for vegetative propagation .



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2. In Agave , the \_\_\_\_\_ help in vegetative propagation .



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3. In Rhizopus , spores are produced inside \_\_\_\_\_.



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4. The stalk of the stamen is called \_\_\_\_\_.



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5. The apertures in exine are called \_\_\_\_\_.



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6. The ovule is attached to the ovary wall by a stalk called \_\_\_\_\_.



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7. The integuments of the ovule enclose a opening called \_\_\_\_\_.



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8. The cells at the chalazal and end of the embryo sac are called \_\_\_\_\_.



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9. The cells adjoining the egg are called \_\_\_\_\_.



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10. The embryo sac has \_\_\_\_\_ nuclei .



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11. Autogamy refers to \_\_\_\_\_.



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12. Pollination with the help of wind is called \_\_\_\_\_.



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13. Pollination by water .....



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14. Pollination in silk cotton is done by \_\_\_\_\_.



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15. Flowers of \_\_\_\_\_ are pollinated by sun birds .



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16. The integuments of the ovule develop into

\_\_\_\_\_.



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17. The integuments of the ovule develop into

\_\_\_\_\_.



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18. The process of spermatogenesis takes place in the \_\_\_\_\_.



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19. Head of the sperm contains the \_\_\_\_\_.



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20. The middle piece of the sperm contains \_\_\_\_\_.



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21. Human ovum is free of \_\_\_\_\_.



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22. Membrane forming surface layer of the ovum is called \_\_\_\_\_.

A. Zona Pellucida

B. Vitelline Membrane

C. Corona Radiata

D. Plasma Membrane

**Answer: B**



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**23.** Plasma membrane is surrounded by inner thin \_\_\_\_\_ in human ovum .



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24. Proliferative phase of the menstrual cycle is also called \_\_\_\_\_.



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25. Emptied graafian follicle develops into \_\_\_\_\_.



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26. Implantation takes place in \_\_\_\_\_ of uterus .



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27. LH hormone is at a peak during \_\_\_\_\_ phase of menstrual cycle .



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28. Zygote is a \_\_\_\_\_ ovum .



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29. Cleavage results in formation of \_\_\_\_\_.



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30. \_\_\_\_\_ forms the blastula .



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31. Formation of germ layers occurs during  
\_\_\_\_\_.



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32. An oocyte remains alive for \_\_\_\_\_ hours .



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33. \_\_\_\_\_ connects the foetus and maternal tissues.



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**34.** A cord containinf blood vessels that connects the placenta with the foetus is called the \_\_\_\_\_.



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**35.** Pregnancy is called \_\_\_\_\_.



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**36.** Normal gestation period of human last for about \_\_\_\_\_ days.



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**37.** Child birth is also called \_\_\_\_\_.



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**38.** If two eggs are produced by the ovary , it results in the formation of \_\_\_\_\_.



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39. \_\_\_\_\_ has been one of the first country in the world to launch the nation wide family planning programme in 1952.



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40. The inverted red triangle is a symbol of \_\_\_\_\_.



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41. \_\_\_\_\_ is a sexually transmitted disease .



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42. Use of diaphragm is a \_\_\_\_\_ method of family planning .



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**43.** The surgical method of birth control in males is called \_\_\_\_\_ and in females in called \_\_\_\_\_.



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**44.** In tamilnadu \_\_\_\_\_ has developed affordable incinerators using firewood for sanitary napkin disposal .



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45. the outer wall of pollen is called \_\_\_\_\_  
and inner wall is called \_\_\_\_\_.



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46. the first menstruation is called \_\_\_\_\_.



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47. Bladder infection is called \_\_\_\_\_.



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**48.** The 14<sup>th</sup> day of menstrual cycle is called \_\_\_\_\_ phase .



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**49.** the thick outer membrane of the ovum is called \_\_\_\_\_.



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50. In asexual reproduction of penicillium the process takes place by forming \_\_\_\_\_.



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51. Hydrophily takes place in \_\_\_\_\_.



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52. Squirrels pollinate flowers of \_\_\_\_\_.



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53. \_\_\_\_\_ provides food to the developing embryo in plants.



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54. \_\_\_\_\_ stimulates the ovary to develop into fruit .



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55. \_\_\_\_\_ Develops into a seed in post fertilization .



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56. After fertilization , the ovary develops into \_\_\_\_\_.



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57. The \_\_\_\_\_ phase of menstrual cycle is also called secretory phase



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58. The onset of puberty occurs at the age of 11-13 in human females is called \_\_\_\_\_.



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59. During \_\_\_\_\_ phase , there is a decrease in progesterone and oestrogen .



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60. The process of attachment of the blastocyst to the uterine wall is called \_\_\_\_\_.



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61. \_\_\_\_\_ contains future plant .



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**62.** Sexual reproduction involves the union of male and \_\_\_\_\_ gametes .



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**63.** In \_\_\_\_\_ reproduction , new plantlets are formed from the vegetative organs of a plant .



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**64.** The tuberous roots of \_\_\_\_\_ are used for vegetative propagation .



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**65.** Flower bud modifies into a globose bulb called \_\_\_\_\_.



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**66.** Breaking of filaments in an algae into many fragments is called \_\_\_\_\_.



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**67.** Hydra and planaria are example of \_\_\_\_\_.



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**68.** gynoecium or pistil in a flower consists of \_\_\_\_\_.



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69. Corolla consists of \_\_\_\_\_ .



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70. Male part of a flower (Anroecium ) is composed of \_\_\_\_\_.



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71. Pollen grain has prominent apertures called \_\_\_\_\_.



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72. \_\_\_\_\_ divides mitotically to form two male gametes in a pollen grain.



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73. Gynoecium is the \_\_\_\_\_ of the flower.



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74. Ovary is made up of \_\_\_\_\_.



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75. \_\_\_\_\_ of a flower contains ovules .



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76. three cells at the \_\_\_\_\_ end in the ovule forms the egg apparatus .



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77. \_\_\_\_\_ is the most common method of asexual reproduction in fungi and bacteria .



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**78.** During spore formation , sporangium develops from the \_\_\_\_\_.



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**79.** The pollen grains in a flower are produced in the anther within the \_\_\_\_\_.



**Watch Video Solution**

**80.** The ovule is attached to the ovary wall by a stalk called \_\_\_\_\_.



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**81.** Embryo sac contains \_\_\_\_ cells and \_\_\_\_ nuclei .



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**82.** the transfer of pollen grains from anther to stigma of a flower is called as \_\_\_\_\_.



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**83.** \_\_\_\_\_ results in fertilization which leads to the formation of fruits and seed .



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**84.** Fertilization in human occurs in the \_\_\_\_\_  
of the female genital tract .



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**85.** Fusion of sperm and egg forms a \_\_\_\_\_.



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**86.** \_\_\_\_\_ occur after implantation in  
formation of embryo.



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87. \_\_\_\_\_ is a temperature association between the embryo and maternal tissues .



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88. The process of milk production from the mammary glands of the mother is called \_\_\_\_\_.



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**89.** The surgical method of birth control in males is called \_\_\_\_\_ and in females is called \_\_\_\_\_.



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**90.** Ligation of fallopian tube is called \_\_\_\_\_.



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91. Mode of pollination is also known as \_\_\_\_\_.



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92. Self - pollination is also known as \_\_\_\_\_.



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93. Cross pollination leads to the production of \_\_\_\_\_.



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94. More viable seeds are produced in \_\_\_\_\_.



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95. Pollination with the help of wind is called \_\_\_\_\_.



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**96.** Pollination with the help of \_\_\_\_\_ is called hydrophily.



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**97.** Pollination with the help of \_\_\_\_\_ is called entomophily .



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**98.** Approximately 80% of entomophily is carried out by \_\_\_.



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**99.** Plasma membrane is surrounded by inner thin \_\_\_\_\_ in human ovum .



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**100.** Corona radiata in the ovum is formed of

\_\_\_\_\_.



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**101.** The fluid -filled space between zone pellucida and the surface of the egg is called

\_\_\_\_\_.



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**102.** Explain the various phases of the menstrual cycle.



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**103.** The menstrual phase in human female is also called \_\_\_\_\_ phase .



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**104.** Production of an offspring by a single parent without the fusion of gametes is called \_\_\_\_\_ reproduction .



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**105.** Offspring produced by \_\_\_\_\_ reproduction are exact copies of their parent .



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**106.** \_\_\_\_\_ is the most common method of asexual reproduction in fungi and bacteria .



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**107.** Each testis is covered with a layer of fibrous tissue called \_\_\_\_\_.



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**108.** The process of spermatogenesis takes place in the \_\_\_\_\_.



**Watch Video Solution**

**109.** \_\_\_\_\_ are the primary male sex organs in human .



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**110.** \_\_\_\_\_ are the primary female sex organs in human .



**Watch Video Solution**

**111.** Fallopian tube , uterus and cervix are the \_\_\_\_\_ sex organs of female .



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**112.** The large elongated cells that provide nutrition to developing sperms are \_\_\_\_\_.



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**113.** The \_\_\_\_\_ cells of the male reproductive system secrete testosterone .



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**114.** The formation of the sperm in male and the ovum in female is called gametogenesis .



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**115.** The anterior portion of a human sperm has a cap like structure called \_\_\_\_\_.



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116. \_\_\_\_\_ An enzyme that helps the sperm to enter the ovum during fertilization .



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**Additional Question Answers State Whether The Following Statement Are True Or False Correct The False Statement**

1. Amoeba reproduces by fragmentation .



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2. \_\_\_\_\_ is a basal part of the Ovule ,



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3. Write the advantages and disadvantages of self-pollination.



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4. Menstrual phase is a proliferative phase .



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5. Colostrum is rich in



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6. If fertilization occurs , corpus luteum breaks down .



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7. True or False. If False correct the statement.

Asexual reproduction involves only mitotic division .



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8. Embryo sac contains \_\_\_ cells and \_\_\_ nuclei

.



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# Additional Question Answers Assertion And Reason

1. Assertion : Surgical methods of contraception help to prevent implanatation .

Reason : They are barrier methods .

A. Both assertion and reason are true and reason is correct explanation of assertion .

B. Both assertion and reason are true but reason is not the correct explantion of

assertion .

C. Assertion is true but reason is false

D. Both assertion and reason are false

**Answer:**



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2. Assertion : The generative cell of the pollen produces two sperms.

Reason : Only one sperm fertilizes the egg.

A. Both assertion and reason are true and reason is correct explanation of assertion .

B. Both assertion and reason are true but reason is not the correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason are false

**Answer: B**



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**3. Assertion (A) :** Asexual reproduction occurs by spore formation in fungal hypha. Reason (R): The nucleus divides several times within the sporangium and each nucleus with small amount of cytoplasm develops into a spore.

A. Both assertion and reason are true and reason is correct explanation of assertion .

B. Both assertion and reason are true but reason is not the correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason are false

**Answer:**



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4. Assertion : Oxytocin from the posterior pituitary stimulates the uterine contractions .

Reason : The ejection of milk is stimulated by posterior pituitary hormone oxytocin .

A. Both assertion and reason are true and reason is correct explanation of assertion .

B. Both assertion and reason are true but reason is not the correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason are false

**Answer:**



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**5. Assertion :** The two outermost whorls calyx and corolla are called as non - essential whorls. **Reason :** calyx and corolla do not directly take part in reproduction .



A. Both assertion and reason are true and reason is correct explanation of assertion .

B. Both assertion and reason are true but reason is not the correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason are false

**Answer:**



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**Additional Question Answers Analogy Type Questions Identify The First Words And Their Relationship And Suggest A Suitable Word For The Fourth Blank**

1. Menstrual :Destructive Phase :: follicular :  
\_\_\_\_\_.



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2. Differentiate Spermatogenesis and oogenesis.



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3. Sweet potato : Root :: Agave : \_\_\_\_\_.



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4. Condom : Male :: Female : \_\_\_\_\_.



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5. Male :Testes :: Female :\_\_\_\_\_.



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6. Grapes : Cross Pollination :: Hibiscus : \_\_\_\_\_.



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**Additional Question Answers Answer In One Word**

1. Explain the structure which makes up the plant body of a fungus .



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2. what type of cell division is seen in generative cell of pollen to form sperms.

A. binary fission

B. mitosis

C. meiosis

D. fragmentation

**Answer: B**



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3. Type of division observed in the formation of baby plant from zygote .



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4. Pollination by water .....



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5. part of ovule which becomes the seed coat .



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6. Division of zygote to form blastula.



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7. Ability of lost body part of an animal to produce the entire organism .



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8. Innermost whorl of a flower.

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9. Fusion of sperm & ovum in the ovule is known as

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10. Fusion of sperm with polar nuclei .





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**11.** Cells which nourish the sperms .



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**12.** The formation of the sperm in male and the ovum in female is called gametogenesis .



**Watch Video Solution**

**13.** The formation of the sperm in male and the ovum in female is called gametogenesis .



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**14.** Stage in life of an individual when menstruation ceases .



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**15.** Formation of primary germ layers in an embryo.



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**Additional Question Answers Answer In A Sentence**

**1.** What is a bud as seen in yeast ?



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2. Why is calyx called non - essential whorl of a flower?



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3. Describe a stamen.



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4. Name the wall layers of a pollen grain .



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5. What are antipodals ?



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6. Name the parts of a pistil and write any one function of each.



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7. Normal gestation period of human last for about \_\_\_\_\_ days.



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**8. What is Parturition?**



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**9. What is the signification of colostrum ?**



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**10. What is the function of Sertoli cells?**



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**11.** Name the common contraception methods

.



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## Additional Question Answers Give Reasons For The Following Statements

**1.** Women generally cannot give birth to a child after 50 years of age .



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2. The entry of only one sperm ensured into an ovum during fertilization in humans, Explain.



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3. Mitochondira brings about sperm motility .



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4. Bulbils give rise to a new plants.



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5. Sertoli cells are called nurse cells.



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## Additional Question Answers Very Short Answers

1. Define Implantation.



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**2. Write a note on menstrual cycle.**



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**3. What are bulbils ?**



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**4. What is regeneration?**



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**5. Name the whorls of a flower .**



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**6. What is egg apparatus ?**



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**7. Define pollination.**



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**8. Another name for cross pollination .....**



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**9. What are the significance of fertilization ?**



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**10.** Mention any two ways of maintaining toilet hugiene .



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**11.** What is Gastrulation?



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**12.** Define gametogenesis.



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13. Self - pollination is also known as \_\_\_\_\_.



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14. How are identical twins formed in human being ?



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[Additional Question Answers Short Answers](#)

1. Draw a diagram to show vegetative reproduction by stem .



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2. Draw a diagram to show sporangium formation in Rhizopus.



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3. Gynoecium is the \_\_\_\_\_ of the flower .





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4. List the salient features of family welfare programme ..



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5. Describe the structure of the human ovum with a neat labelled diagram.



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6. List the post fertilization changes in a flower

.



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7. What is placenta?



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## Additional Question Answers Long Answers

1. Write a note on agents of pollination .



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2. Describe the structure of a sperm



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3. Explain the process of fertilization in plants .



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[Additional Question](#) [Answers](#) [Higher Order Thinking Skills](#) [Hots](#)

1. In a bisexual flower , the stamens have been removed .Is it possible for this flower to profuce seeds .



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2. Sexual reproduction is said to be superior to asexual reproduction .. Do you agree with this .



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3. What happens in the female body (uterus) if the ovum (egg) is not fertilised by a sperm?



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**Additional Question Answers Value Based Questions**

1. Government has brought in lot of measures to focus on health of a pregnant based women. Answer the following questions based on the same.

Name the tissue responsible for transfer of nutrients from mother to the offspring during pregnancy .



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2. Gvernment has brought in lot of measures to focus on health of a pregnant based women . Answer the following questions based on the same .

Suggest two measure to maintain a women 's health during pregnancy .



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3. Arun and Run were good friends .but Ram slowly started loosing interest in studies as they grew up . The teacher found out that Ram had three siblings and their parents could not give him good food or personal care . What value does this episode give us .



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4. My friend manisha received a marriage proposal from a boy living abroad . Before they met and finalised the wedding ,Manisha requested her parents to get the boy's blood test report .

(i) Do you think blood test report is necessary for both boy & girl ?

(ii ) DO you think , blood test report is not necessary for the boy living in india ?



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# Additional Question Answers Expand The Following Abbreviations

1. Expand the Abbreviations- WHO



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2. Expand the Abbreviations-RCH



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3. Expand the Abbreviations-MCH





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**4. Expand the Abbrevitions-IUD**



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**5. Expand the Abbrevitions-STD**



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**6. Expand the Abbrevitions-UTI**



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## 7. Expand the acronyms

LH



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## 8. Expand the acronyms

FSH



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## 9. Expand the Abbreviations-UNICEF



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