

## **BIOLOGY**

# **BOOKS - TARGET BIOLOGY (HINGLISH)**

# LIFE PROCESSES IN LIVING ORGANISM PART-2

**Choose The Correct Alternative** 

1. The life process which does not help the organism to remain alive, but helps to

maintain the continuity of the species is

A. nutriton

B. respiration

C. reproduction

D. control and co-ordination

### **Answer: C**



**2.** During asexual reproduction, cell divide by the process of

A. mitosis

B. meiosis

C. fertilization

D. double fertilization

**Answer: A** 



**3.** Which of the following is asexual method of reproduction?

A. Division

B. Budding

C. Spore formation

D. All of these

**Answer: D** 



- 4. Paramoecium divides by
  - A. transverse binary fissioni
  - B. longitudinal binary fission
  - C. simple binary fission
  - D. regeneration

**Answer: A** 



5. The property of regeneration is observed	The	. The property of reg	generation is	observed	in
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- A. Humans
- B. Planaria
- C. Yeast
- D. Amoeba

**Answer: B** 



**6.** Under favourable condition, Hydra reproduces by process of\_\_\_\_\_\_.

- A. Binary fission
- B. Budding
- C. Multiple division
- D. None of these

Answer: B



is the structure inside which				
spores of bread mould are formed.				
View Text Solution				
8. The number of	chromosome gets			
in meiosi	s.			
View Text Solution				
<b>9.</b> Androecium and	are the			
essential whorls.				

- A. Calyx
- B. Corolla
- C. Petals
- D. Gynoecium

#### **Answer: D**



- **10.** Unisexual flower shows presence of
  - A. both androecium and gynoecium

- B. only androecium
- C. only gyoecium
- D. either and raecium or gynoecium

#### **Answer: D**



- 11. Each pollen tube contains
  - A. two male gametes
  - B. three male gametes

- C. one female gamete
- D. one male and one female gametes

**Answer: A** 



- **12.** In plants, second male gamete fuses with two polar nuclei to form \_\_\_\_\_
  - A. zygote
  - B. embryo

C. embryo sac

D. endosperm

**Answer: D** 



**View Text Solution** 

**13.** During seed germination \_\_\_\_\_\_ develops by using food stored in endosperm of the seed.

A. ovary

C. ovule				
D. radical				
Answer: B				
View Text Solution				
<b>14.</b> is the union of sperm and				
ovum to initiate formation of a zygoe.				
A. Meiosis				

B. zygote

- B. Mitosis
- C. Fertilization
- D. Germination

#### **Answer: C**



**View Text Solution** 

**15.** The length of a sperm is about micrometers.

A. 400

C. 60
D. 600
Answer: C
View Text Solution
<b>16.</b> In humans, sperm production occurs in the
A. Penis

B. 5

C. Vas deferens

D. Ureters

#### **Answer: B**



**View Text Solution** 

**17.** \_\_\_\_\_ present in semen gives energy to the sperms.

A. Fructose

C. Estrogen
D. Progesterone
Answer: A
View Text Solution
<b>18.</b> In females, ovary usually releases
egg/s each month.
A. one

B. Testosterone

B. two				
C. three				
D. four				
Answer: A  View Text Solu	utior			
<b>19.</b> Implantation	of	embryo	occurs	in
A. oviduct				

C. uterus					
D. vagina					
Answer: C					
View Text Solution					
20 supplies food material to					
the developing embryo in uterus.					
A. Corpus luteum					

B. ovaries

- B. Endometrium
- C. Follicle
- D. Placenta

#### **Answer: D**



**View Text Solution** 

**21.** If oocyte is not fertilized withing 24 hours, corpus luteum becomes inactive and transforms into

A. endometrium					
B. follicle					
C. corpusalbicans					
D. none of these					
Answer: C					
View Text Solution					
22.	are	ways	of	family	
planning.					

- A. To take contraceptive tablets
- B. To use Nirodh (Condom)
- C. To install copper-T
- D. All of these

#### **Answer: D**



**View Text Solution** 

23. The life process which does not help the organism to remain alive, but helps to maintain the continuity of the species is

- A. nutriton
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#### **Answer: C**



**View Text Solution** 

**24.** During asexual reproduction, cell divide by the process of

- A. mitosis
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- C. fertilization
- D. double fertilization

#### **Answer: A**



**View Text Solution** 

**25.** Which of the following is asexual method of reproduction ?

- A. Division
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- C. Spore formation
- D. All of these

#### **Answer: D**



**View Text Solution** 

**26.** Paramoecium divides by

A. transverse binary fissioni

- B. longitudinal binary fission
- C. simple binary fission
- D. regeneration

#### **Answer: A**



- 27. The property of regeneration is observed in
  - A. Humans
  - B. Planaria

- C. Yeast
- D. Amoeba

**Answer: B** 



**View Text Solution** 

**28.** Under favourable condition, Hydra reproduces by process of\_\_\_\_\_\_.

- A. Binary fission
- B. Budding

- C. Multiple division
- D. None of these

**Answer: B** 



**View Text Solution** 

**29.** \_\_\_\_\_ is the structure inside which spores of bread mould are formed.



30.	The	number	of	chromosome	gets		
in meiosis.							



**31.** Androecium and \_\_\_\_\_ are the essential whorls.

- A. Calyx
- B. Corolla
- C. Petals

D. Gynoecium

#### **Answer: D**



**View Text Solution** 

**32.** Unisexual flower shows presence of

A. both androecium and gynoecium

B. only androecium

C. only gyoecium

D. either and raecium or gynoecium

#### **Answer: D**



# **View Text Solution**

## 33. Each pollen tube contains

A. two male gametes

B. three male gametes

C. one female gamete

D. one male and one female gametes

#### **Answer: A**

**34.** In plants, second male gamete fuses with two polar nuclei to form \_\_\_\_\_

A. zygote

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#### View Text Solution

**35.** During seed germination \_\_\_\_\_\_ develops by using food stored in endosperm of the seed.

A. ovary

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**Answer: B** 

36. \_\_\_\_\_ is the union of sperm and ovum to initiate formation of a zygoe.

A. Meiosis

**B.** Mitosis

C. Fertilization

D. Germination

**Answer: C** 



**37.** The length of a sperm is about \_\_\_\_\_ micrometers.

A. 400

B. 5

C. 60

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#### **Answer: C**



**38.** In humans, sperm production occurs in the

A. Penis

**B.** Testes

C. Vas deferens

D. Ureters

#### **Answer: B**



**39.** \_\_\_\_\_ present in semen gives energy to the sperms.

- A. Fructose
- B. Testosterone
- C. Estrogen
- D. Progesterone

### **Answer: A**



40.	ln	females,	ovary	usually	releases
		€	egg/se	ach mont	h.
Δ	A. one	2			
В	3. two	)			
C	. thr	ee			
D	). fou	r			
Answ	ver: /	A			
C	Vie	w Text Solu	ution		

41.	Implantation	of	embryo	occurs	in
	•				

A. oviduct

B. ovaries

C. uterus

D. vagina

### **Answer: C**



42	supplies	food	material	to

the developing embryo in uterus.

- A. Corpus luteum
- B. Endometrium
- C. Follicle
- D. Placenta

### **Answer: D**



**43.** If oocyte is not fertilized withing 24 hours, corpus luteum becomes inactive and transforms into

- A. endometrium
- B. follicle
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### **Answer: C**



**44.** \_\_\_\_\_are ways of family planning.

A. To take contraceptive tablets

B. To use Nirodh (Condom)

C. To install copper-T

D. All of these

**Answer: D** 



# Complete The Paragraph

1. The female reproductive system ovidust a
pair of ovaries and along with a
single and a vagina. Besides these
, a pair of glands is also present.
From puberty, an ovum is released every
month alternately from each
until that occurs around 40-50
years of in females. The free end of the oviduct
is shaped.

2. Growth of follicles present in the ovary
occurs under the effect ofThis
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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of follicle . It secretes\_\_\_\_\_ and . Under the effect of these hormones, glands of\_\_\_\_\_ are activated and it becomes ready for implantation. **View Text Solution** 

# Name The Following

**1.** Formation of new organism of same species by earlier existing organism

**2.** The structural unit of sexual reproduction in plants



**View Text Solution** 

3. Vegetative parts of a plant.



4. Four floral whorls



**View Text Solution** 

**5.** The female reproductive part of the flower.



**View Text Solution** 

6. The elongated part of carpel bearing stigma at its tip.



**7.** The process through which seeds develop into seedlings.



**View Text Solution** 

**8.** Organs of human male reproductive system which are not paired.



**9.** Hormones related with malle reproductive system.



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



**11.** Types of twins.

**12.** The types of disease which spread from one infected person to another, through unprotected sexual contact.



**13.** Any two sexually transmitted diseases.



**14.** Methods of family planning.



**15.** A person's state of physical, mental and social well being.



**16.** Formation of new organism of same species by earlier existing organism





**17.** The structural unit of sexual reproduction in plants



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**View Text Solution** 

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**30.** A person's state of physical, mental and social well being.



**View Text Solution** 

**True Or False** 

**1.** Asexual type of reproduction occurs without fusion of gametes.



**View Text Solution** 

2. Daughter cells produced by asexual reproduction are genetically identical to the parent cells.



**3.** Asexual reproduction is a faster process as compared to sexual reproduction.



**View Text Solution** 

**4.** Binary fission is usually performed by Amoeba when there is lack of food or any other type of adverse condition.



**5.** Asexual reproduction occurs by budding in yeast.



## **View Text Solution**

**6.** Body breaks up into several fragments and each fragment starts to live as a new individual. This is asexual (fragmentation) type of reproduction.



7. Spirogyra reproduces by framentation.



**8.** New fungal colonies are formed bygermination of spores in hot and dry places.



9. Gametes are formed by meiotic division.



**10.** Sexual mode of reproduction, generates greater diversity.



**View Text Solution** 

**11.** Androecium and gynoecium are called accessory whorls of flower.



**12.** Members of calyx are called as sepals.



**13.** Pollen grains are formed by meiotic division in locules of anthers.



14. Hibiscus is an example of unisexual flower.



**15.** Testes are present in the scrotum, outside the abdominal cavity.



**View Text Solution** 

16. Semen is ejaculated out through penis.



**17.** Cilia present on inner surface of oviduct push the oocyte towards uterus.



## **View Text Solution**

**18.** In humans, Y chromosome is responsible for maleness.



**19.** At the time of birth , female ovary contains millions of immature oocytes.



## **View Text Solution**

**20.** Menstrual cycle temporarily ceases till parturition and thereafter for the period of breast feeding.



**21.** Monozygotic twins are exactly similar in their appearance and their gender is also same.



**View Text Solution** 

22. Gender of dizygotic twins is always same.



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## **View Text Solution**

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1. Amoeba, Euglena, Paramoecium, Hydra



**View Text Solution** 

2. Stigma, Style, Ovary, Anther



**View Text Solution** 

3. Egg cell, Polar nuclei, Pollen tube, Antipodals



4. Vagina, Uterus, Vas deferens, Ovary



**View Text Solution** 

5. Syphilis, Gonorrhea, Tuberculosis, AIDS



**View Text Solution** 

6. Amoeba, Euglena, Paramoecium, Hydra



**7.** Stigma, Style, Ovary, Anther



**View Text Solution** 

8. Egg cell, Polar nuclei, Pollen tube, Antipodals



**View Text Solution** 

9. Vagina, Uterus, Vas deferens, Ovary



#### 10. Syphilis, Gonorrhea, Tuberculosis, AIDS



### Complete The Analogy

1. Transverse binary fission: Paramoecium::

Longitudinal binary fission:\_\_\_\_\_.



2. Vegetative	propagation	by	stem	: Potato
::	: Bryophylli	um		
View Te	xt Solution			

**3.** Root,stem, leaf: Vegaetative propagation

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



**4.** Fragmentation: Multicellular organism:: Binary fission:\_\_\_\_\_\_.

5. Essential whorls of flower: Reproduction

:: Accessory whorls of flower:\_\_\_\_\_.



<b>6.</b> Pedicel present : Pedicellate flower ::
Pedicel absent :
View Text Solution
<b>7.</b> Female reproductive part : Carpel :: Male reproductive part :
View Text Solution
<b>8.</b> Ovary: Fruit:: Ovules:

9. Fusion of male and female gamete: Zygote

:: Fusion of second male gamete and two

polar nuclei :\_\_\_\_\_



**10.** Autosomes : 22 pairs : : Sexchromosomes

•



**11.** Male : 44 Autosomes + XY :: Female :\_\_\_\_\_



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View Text Solution
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View Text Solution

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View Text Solution
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•



**22.** Male: 44 Autosomes + XY:: Female .



# **Answer The Following**

**1.** What is asexual reproduction?



2. What is the advantage and disadvantage of asexual reproduction?



**View Text Solution** 

3. Explain with example types of asexual reproduction in unicellular organism.



4. What is meant by 'syst ' in Amoeba?



**5.** What changes occur in Amoeba to survive in adverse conditions?



**View Text Solution** 

**6.** Write a short note on the following diagram.





**7.** Explain regeneration giving two examples.



8. Explain asexual reproduction in plants?



**9.** Explain with examples different methods of asexual reproduction in plants.



**10.** Seeds of some plants do not germinate. How are the next generation formed ?



**View Text Solution** 

**11.** What is sexual reproduction? Explain the two main processes involved in sexual reproduction.



**12.** Explain sexual reproduction in plants.



**13.** What is the function of sigma in reproduction?



**14.** Define pollination.



15. Write a short note on Pollination.



**View Text Solution** 

**16.** In case of sexual reproduction, newborn shows similarities about charactes. Expain this statement with suitable examples.



**17.** How do the characteristics of mother and father get transmitted in a human embryo ?



#### **View Text Solution**

**18.** Explain how sperms are formed from testes and transported to urinogenital duct.



**19.** Why male reproductive system is called as urinogenitial system?



**View Text Solution** 

**20.** Secretion of which glands consitute the semen?



**21.** Which are the paired structures of male reproductive system?



**View Text Solution** 

**22.** What is the pathway of sperm in female reproductive system to reach ovum for fertilization?



**23.** In humans, germ cells are diploid but sperm and oocytes are haploid. Explain the given statement in detail.



**View Text Solution** 

**24.** How meiotic division occurs at different time in sperm and oocyte?



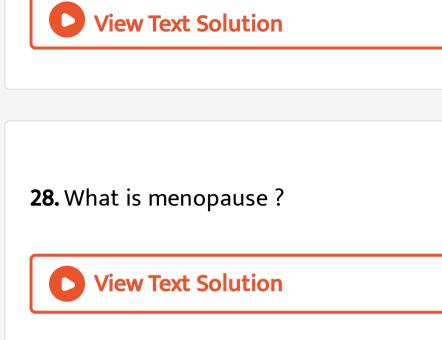
**25.** What happens after fertilization of ovum?



**26.** Prepare a slogan for campaign agains female foeticide.



**27.** What is menstrual cycle? Describe it in brief.



**29.** Explain the concept of IVF.



**30.** Write a short note on IVF technique.

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



View Text Solution

**32.** What are twins? Explain the two types of twins.





33. Write short note Siamese twins.



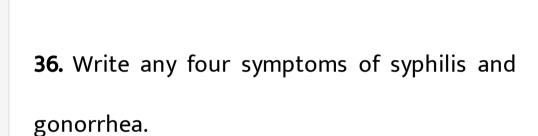
**View Text Solution** 

**34.** What are the reasons behind lack of awareness regarding reproductive health in our country?



35. Which precaution will you follow to maintain the reproductive health?

View Text Solution







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**View Text Solution** 

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**View Text Solution** 

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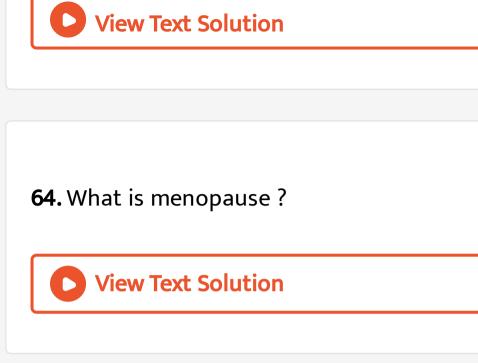
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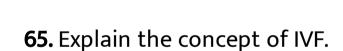


**62.** Prepare a slogan for campaign agains female foeticide.



**63.** What is menstrual cycle? Describe it in brief.







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



**68.** What are twins? Explain the two types of twins.





69. Write short note Siamese twins.



**70.** What are the reasons behind lack of awareness regarding reproductive health in our country?



**71.** Which precaution will you follow to maintain the reproductive health?



**72.** Write any four symptoms of syphilis and gonorrhea.



**Give Reasons** 

**1.** Fertilization in flowering plants is called double fertilization.



**View Text Solution** 

**2.** Birth defects are more common among children born to older women.



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



**View Text Solution** 

**4.** "Gender of child is determined by the male partner of couple." Draw a diagram explaining the above statement.



**5.** There is need of rest along with special personal hygiene during menstruation.



**6.** Fertilization in flowering plants is called double fertilization.



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**View Text Solution** 

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**View Text Solution** 

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1. Binary fission and Multiple fission



**View Text Solution** 

**2.** Fertilization in plants and Fertilization in human beings.



**View Text Solution** 

3. Binary fission and Multiple fission

**4.** Fertilization in plants and Fertilization in human beings.



**View Text Solution** 

## **Complete The Given Chart Table**

1.



2.



**View Text Solution** 

### **Questions Based On Diagram**

**1.** Observe the given figure 'a' and 'b' and write the differences between them.





**2.** Draw neat and labelled diagram of budding in Hydra.



# **View Text Solution**

**3.** Identify the labels (i,ii,iii,iv) and explain the process represented in the given diagram.





**4.** In the following figure, explain how new fungal colonies of Mucor are formed :





**5.** Identify and state the type of reproduction represented in the above figure.



- 6. Sketch and label diagrams.
- i. Human male reproductive system ii. Human female reproductive system

iii. Flower with its sexual reproductive system

iv. Menstrual cycle



**7.** Observe the diagram given below and answer the question based on it.



Name the phases of menstrual cycle.



**View Text Solution** 

**8.** Observe the diagram given below and answer the question based on it.



Identify 'X' and 'Y' shown in the diagram.



**9.** Observe the diagram given below and answer the question based on it.



On which day of the menstrual cycle oocyte is released?



**View Text Solution** 

**10.** Observe the given figure 'a' and 'b' and write the differences between them.





**11.** Draw neat and labelled diagram of budding in Hydra.



### **View Text Solution**

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Identify 'X' and 'Y' shown in the diagram.



**18.** Observe the diagram given below and answer the question based on it.



On which day of the menstrual cycle oocyte is released?



**View Text Solution** 

**Questions Based On Paragraph** 

1. Swati, a 26 years old lady, living in a village was physically abused by her in -laws for delivering a baby girl for the second time. When she got pregnant for the third time her husband and in-laws forced her for the prenatal sex determination. Her in-laws got the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child.

Based on the given paragraph answer the questions. Do you think it is correct to blame Swati for delivering baby girls?

2. Swati, a 26 years old lady, living in a village was physically abused by her in -laws for delivering a baby girl for the second time. When she got pregnant for the third time her husband and in-laws forced her for the prenatal sex determination. Her in-laws got the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child.

Based on the given paragraph answer the

questions.

Scientifically, who is responsible for determining the sex of a child?



### **View Text Solution**

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the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child.

Based on the given paragraph answer the questions.

Why are prenatal gender detection centres banned in out country?



**4.** Swati, a 26 years old lady, living in a village was physically abused by her in -laws for

delivering a baby girl for the second time.

When she got pregnant for the third time her husband and in-laws forced her for the prenatal sex determination. Her in-laws got the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child.

Based on the given paragraph answer the questions. Do you think it is correct to blame Swati for delivering baby girls?



**5.** Swati, a 26 years old lady, living in a village was physically abused by her in -laws for delivering a baby girl for the second time. When she got pregnant for the third time her husband and in-laws forced her for the prenatal sex determination. Her in-laws got the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child. Based on the given paragraph answer the questions.

Scientifically, who is responsible for

determining the sex of a child?

**6.** Swati, a 26 years old lady, living in a village was physically abused by her in -laws for delivering a baby girl for the second time. Whenshe got pregnant for the third time her husband and in-laws forced her for the prenatal sex determination. Her in-laws got the foetus aborted when tehy found that it was a girl child and blamed her for conceiving a girl child.

Based on the given paragraph answer the

questions.

Why are prenatal gender detection centres banned in out country?



**View Text Solution** 

# **Apply Your Knowledge**

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



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



**View Text Solution** 

**3.** Which are main types of cell-division? What are the differences ?



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



**View Text Solution** 

5. Observe.

Observe the pictures and tell the life processes which you identified.



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



**View Text Solution** 

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



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



**View Text Solution** 

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



10. Activity 1: Take a conical flask and collect the water in it from a pond having stagnent water and aquatic plants. Add some wheat grans and aquatic plants to it. Keep it for 3-4 days so that wheat grains and plants will decompose. Early in the morning on fourth day, take a glass slide and put a drop of that water over it. Carefully, put a cover-slip on that drop and observe under compound microscope.



**11.** Use your brain power.

Does the parent cell exist after asexual reproduction-fission?



**View Text Solution** 

12. Activity 2: Bring the active dry yeast powder from market. Take 50ml lukewarm water in a conical flask. Add 5gm of active dry yeast powder and 10 gm table sugar to that water andmix the mixture well. Keep the flask in warm place and after an hour take a drop of

that mixture on a clean glass slide. Put a coverglass on that drop and observe it under the compound microscope.



**View Text Solution** 

13. Take a piece of wet bread or 'bhakari' and keep it in humid place. Fungus will grow on it within 2-3days. Observe the fungus under compound microscope and draw its diagram.



14. Lets think.

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



**View Text Solution** 

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



**16.** What would have happened if meiosis did not occur during the production of human sperm celll and egg cell ?



**View Text Solution** 

# **17.** Try this.

Take a suitable glass vessel like conical flask or beaker. Add some garden soil in it and sow some pulse grains in it in such away that you can observe them through glass. Water it every day and record the changes.

**18.** Which different hormones control the functions of human reproductive system through chemical coordination?



# View Text Solution

**19.** Which hormones are responsible for changes in human body occurring during on set of sexual maturity?



#### View Text Solution

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



**View Text Solution** 

**21.** Describe the male reproductive system.



22. Describe the female reproductive system.



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



**24.** Under the effect of that hormone, which organ of the female reproductive system

starts to contract and there by birth process (

Parturition ) is facilitated ?



**View Text Solution** 

### 25. Get information.

Visit a public health center nearby your place and collect the information through an interview of health officer about meaning and various methods of family planning.



**26.** With the help of your teacher,compose and present a road show to increase the awareness about prenatal gender detection and gender bias.



**View Text Solution** 

**27.** Which are the important life processes in living organisms?



**28.** Which life processes are essential for production of energy requied by body?



**View Text Solution** 

**29.** Which are main types of cell-division? What are the differences?



**View Text Solution** 

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



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



**View Text Solution** 

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



## **View Text Solution**

**36.** Activity 1: Take a conical flask and collect the water in it from a pond having stagnent water and aquatic plants. Add some wheat grans and aquatic plants to it. Keep it for 3-4 days so that wheat grains and plants will

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**View Text Solution** 

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**View Text Solution** 

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



**View Text Solution** 

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**View Text Solution** 

**44.** Which different hormones control the functions of human reproductive system

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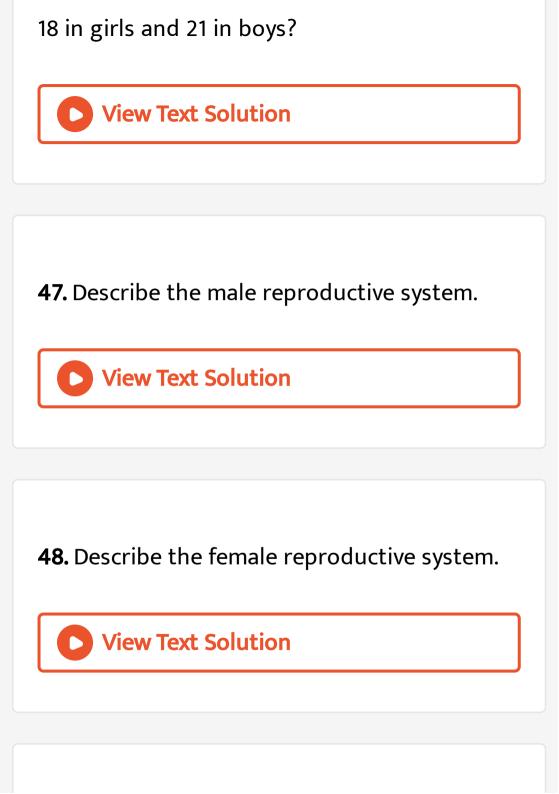
**View Text Solution** 

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**View Text Solution** 

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**View Text Solution** 

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**View Text Solution** 

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