



BIOLOGY

BOOKS - NAVNEET PUBLICATION

LIFE PROCESSES IN LIVING ORGANISMS: PART-2

Examples

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

5. Observe the pictures and tell the life process which are identified.



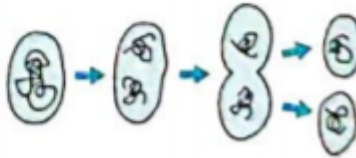
(a)



(b)



(c)



(d)



Watch Video Solution

6. What do we mean by maintenance of species ?



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

10. Lets think.

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

Exercise

1. Choose the correct alternative and write that alphabet against the sub-question number:

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

A. prostate gland

B. testis

C. ovaries

D. Cowper's gland

Answer: B



Watch Video Solution

2. Choose the correct alternative and write that alphabet against the sub-question number:

In humans,.....chromosome is responsible for maleness.

A. X

B. Y

C. Z

D. O

Answer: B



Watch Video Solution

3. Choose the correct alternative and write that alphabet against the sub-question number:

Implantation of embryo occurs in.....

A. ovaries

B. fallopian duct

C. uterus

D. vagina

Answer: C



Watch Video Solution

4. Choose the correct alternative and write that alphabet against the sub-question number:

Body breaks up into several fragments and each fragment begins to live as a new individual. This istype of reproduction.

regeneration

fragmentation

binary fission

budding

A. regeneration

B. fragmentation

C. binary fission

D. budding

Answer: B



Watch Video Solution

5. Choose the correct alternative and write that alphabet against the sub-question number:

Pranav and Pritee are twins in your class. They belong totwins type.

1 monozygotic

2 dizygotic

3 siamese

4 none of the above

A. monozygotic

B. dizygotic

C. siamese

D. none of the above

Answer: B



Watch Video Solution

6. Choose the correct alternative and write that alphabet against the sub-question number:

Lognitudinal binary fission is seen is.....

1 Paramoecium

2 Euglena

3 Amoeba

4 Spirogyra

A. Paramoecium

B. Euglena

C. Amoeba

D. Spirogyra

Answer: B



Watch Video Solution

7. Choose the correct alternative and write that alphabet against the sub-question number:

Yeast cell performs asexual reproduction by.....

A. fragmentation

B. budding

C. binary fission

D. regeneration

Answer: B



Watch Video Solution

8. Choose the correct alternative and write that alphabet against the sub-question number:

Carrot and raddish undergoes.....with the help of their roots.

A. Vegetative propagation

B. fragmentation

C. budding

D. regeneration

Answer: A



Watch Video Solution

9. Choose the correct alternative and write that alphabet against the sub-question number:

Which of the following is not a type of asexual reproduction in multicellular organism?

A. fragmentation

B. Regeneration

C. Budding

D. Binary fission

Answer: D



Watch Video Solution

10. Choose the correct alternative and write that alphabet against the sub-question number:

At the time of birth, there areoocytes in the ovary of a female foetus.

- 1) 1 to 2 million
- 2) 2 to 3 million
- 3) 2 to 4 million
- 4) none of these

A. 1 to 2 million

B. 2 to 3 million

C. 2 to 4 million

D. none of these

Answer: C



Watch Video Solution

11. Choose the correct alternative and write that alphabet against the sub-question number:

.....on the inner surface of fallopian ducts(oviducts) push the egg towards uterus.

1)Cilia

2)Tentacles

3)Flagella

4)Fibres

A. Cilia

B. Tentacles

C. Flagella

D. Fibres

Answer: A



Watch Video Solution

12. Choose the correct alternative and write that alphabet against the sub-question number:

Pregnant mother supplies nourishment to her foetus through.....

A. breasts

B. uterus

C. placenta

D. ovaries

Answer: C



Watch Video Solution

13. Choose the correct alternative and write that alphabet against the sub-question number:

.....modern remedial technique is used if there is a problem in implantation of embryo in the uterus.

A. Surregacy

B. Sperm bank

C. In vitro fertilization

D. none of these

Answer: A



Watch Video Solution

14. Choose the correct alternative and write that alphabet against the sub-question

number:

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

A. 400

B. 5

C. 60

D. 600

Answer: C



Watch Video Solution

15. Choose the correct alternative and write that alphabet against the sub-question number:

Vegetative propagation is performed with the help of.....in sweet potato.

- 1) root
- 2) stem
- 3) leaf
- 4) flower

A. root

B. stem

C. leaf

D. flower

Answer: A



Watch Video Solution

16. Choose the correct alternative and write that alphabet against the sub-question number:

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

A. Asexual

B. Sexual

C. Fertilization

D. Gamete formation

Answer: A



Watch Video Solution

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

A. meiosis

B. mitosis

C. amitosis

D. binary

Answer: A



Watch Video Solution

18. Choose the correct alternative and write that alphabet against the sub-question number:

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



Watch Video Solution

19. Write whether the following statements are true or false, with the suitable reason:

Absence of genetic recombination is an advantage whereas fast process is drawback of asexual reproductive method.



Watch Video Solution

20. Write whether the following statements are true or false, with the suitable reason:

Prokaryotes show fission which occurs either by mitosis or amitosis.



Watch Video Solution

21. Write whether the following statements are true or false, with the suitable reason:

During favourable conditions multiple fission is performed by amoeba.



Watch Video Solution

22. Write whether the following statements are true or false, with the suitable reason:

Any encysted amoeba or any other protist is called 'Cyst'.



Watch Video Solution

23. Write whether the following statements are true or false, with the suitable reason:

If the body of Sycon breaks up accidentally

into only large and few fragment develops into new Sycon.



Watch Video Solution

24. Write whether the following statements are true or false, with the suitable reason:

Pollen tube reaches the zygote via style.



Watch Video Solution

25. Write whether the following statements are true or false, with the suitable reason:

There is glucose sugar in the semen.



Watch Video Solution

26. Write whether the following statements are true or false, with the suitable reason:

Out of 2-4 million ova, approximately only 400 oocytes are released up to the age of menopause.





[Watch Video Solution](#)

27. Find the odd out:

Circulation, Excretion, Sensation Reproduction.



[Watch Video Solution](#)

28. Find the odd out:

Budding in hydra, Regeneration, Binary fission,
Fragmentation



[Watch Video Solution](#)

29. Find the odd out:

Carrot, Raddish, Potato, Sweet potato.



Watch Video Solution

30. Find the odd out:

Vas eferens, vas deferens, prostate gland,
epididymis.



Watch Video Solution

31. Find the odd out:

Prostate gland, Bartholin's gland, Cowper's gland, Epididymis.



Watch Video Solution

32. Find the odd out:

Stigma, style, pollen, ovary.



Watch Video Solution

33. Identify the correction between the first two words and suggest the suitable words in the fourth place:

Amoeba: Fission::Hydra:.....



Watch Video Solution

34. Transverse binary fission : Paramecium
: : Longitudinal binary fission :_____.



Watch Video Solution

35. Identify the connection between the first two words and suggest the suitable words in the fourth place:

Calyx: Sepals: Corolla:.....



Watch Video Solution

36. Identify the correction between the first two words and suggest the suitable words in the fourth place:

Accessory whorls: Calyx and Corolla:.....



Watch Video Solution

37. Identify the correction between the first two words and suggest the suitable words in the fourth place:

Bisexual flower: Hibiscus:: Unisexual flower:.....



Watch Video Solution

38. Identify the correction between the first two words and suggest the suitable words in

the fourth place:

FSH: Development of oocyte::LH:.....



Watch Video Solution

39. Identify the correction between the first two words and suggest the suitable words in the fourth place:

Spirogyra: Fragmentation::Planaria:.....



Watch Video Solution

40. Define the following/Give meaning of the following:

Budding in yeast:



Watch Video Solution

41. Define the following/Give meaning of the following:

Budding in hydra:



Watch Video Solution

42. Define the following/Give meaning of the following:

Regeneration:



Watch Video Solution

43. Define the following/Give meaning of the following:

Fragmentation:



Watch Video Solution

44. Define the following/Give meaning of the following:

Vegetative propagation:



Watch Video Solution

45. Define the following/Give meaning of the following:

Fertilization:



Watch Video Solution

46. Define the following/Give meaning of the following:

Pedicle:



Watch Video Solution

47. Define the following/Give meaning of the following:

Pollination:



Watch Video Solution

48. Define the following/Give meaning of the following:

Self-pollination:



Watch Video Solution

49. Define the following/Give meaning of the following:

Cross pollination:



Watch Video Solution

50. Define the following/Give meaning of the following:

Endosperm:



Watch Video Solution

51. Define the following/Give meaning of the following:

Embryo sac:



Watch Video Solution

52. Define the following/Give meaning of the following:

Menopause:



Watch Video Solution

53. Define the following/Give meaning of the following:

Placenta:



Watch Video Solution

54. Define the following/Give meaning of the following:

IVF:



Watch Video Solution

55. Define the following/Give meaning of the following:

Corpus luteum:



Watch Video Solution

56. Define the following/Give meaning of the following:

Corpus albicans



Watch Video Solution

57. Define the following/Give meaning of the following:

ovulation:



Watch Video Solution

58. Define the following/Give meaning of the following:

IVF:



Watch Video Solution

59. Define the following/Give meaning of the following:

Sperm bank:



Watch Video Solution

60. Hormones related with male reproductive system.



Watch Video Solution

61. Name the following/Given the names:

Different glands associated with male reproductive system.



Watch Video Solution

62. Name the following/Given the names:

Agents of pollination.



Watch Video Solution

63. Name the following/Given the names:

Components of semen:



Watch Video Solution

64. Hormones secreted by ovary of female reproductive system.



Watch Video Solution

65. Name the following/Given the names:

Two accessory whorls in flower.



Watch Video Solution

66. Name the following/Given the names:

Two essential whorls in flower.



Watch Video Solution

67. Types of twins.



Watch Video Solution

68. Name the following/Given the names:

The modern techniques in reproduction.



Watch Video Solution

69. Name the following/Given the names:

Any two sexual diseases.



Watch Video Solution

70. Name the following/Given the names:

Symptoms of gonorrhoea.



Watch Video Solution

71. Name the following/Given the names:

Symptoms of syphilis.



Watch Video Solution

72. Methods of family planning.



Watch Video Solution

73. Answer in one sentence:

What is gamete formation?





[Watch Video Solution](#)

74. Answer in one sentence:

How are the sperms formed?



[Watch Video Solution](#)

75. Answer in one sentence:

How is the semen produced?



[Watch Video Solution](#)

76. Answer in one sentence:

Which parts are converted into seed and fruit respectively after fertilization?



Watch Video Solution

77. Answer in one sentence:

What does germination mean?



Watch Video Solution

78. Answer in one sentence:

Write the name of the type of reproduction in the following figure.



Watch Video Solution

79. Write the function of the following organs:

Sporangium.



Watch Video Solution

80. Write the function of the following organs:

Calyx.



Watch Video Solution

81. Write the function of the following organs:

Corolla.



Watch Video Solution

82. Write the function of the following organs:

Androecium.



Watch Video Solution

83. Write the function of the following organs:

Gynoecium.



Watch Video Solution

84. Write the function of the following organs:

Endosperm.



Watch Video Solution

85. Write the function of the following organs:

Testis.



Watch Video Solution

86. Write the function of the following organs:

Scrotum.



Watch Video Solution

87. Write the function of the following organs:

Seminal vesicles.



Watch Video Solution

88. Write the function of the following organs:

Penis.



Watch Video Solution

89. Write the function of the following organs:

Ovary.



Watch Video Solution

90. Write the function of the following organs:

Uterus.



Watch Video Solution

91. Write the function of the following organs:

Fallopian tubes/ducts.



Watch Video Solution

92. Binary fission and Multiple fission



Watch Video Solution

93. Distinguish between Human male and Human female reproductive system.



[Watch Video Solution](#)

94. Distinguish between Monozyotic twins and Dizygotic twins.



[Watch Video Solution](#)

95. Give scientific reasons:

Flower is the structural unit of sexual reproduction in plant.



[Watch Video Solution](#)

96. Give scientific reasons:

By the age of 45-50 women gets menopause.



Watch Video Solution

97. Give scientific reasons:

Older mothers have greater chance of conceiving abnormal children.



Watch Video Solution

98. Give scientific reasons:

Indians should follow family planning for controlling the population.



Watch Video Solution

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



Watch Video Solution

100. Explain asexual reproduction in plants ?



Watch Video Solution

101. Answer the following questions in short:

How does reproductive take place in fungus mucor?

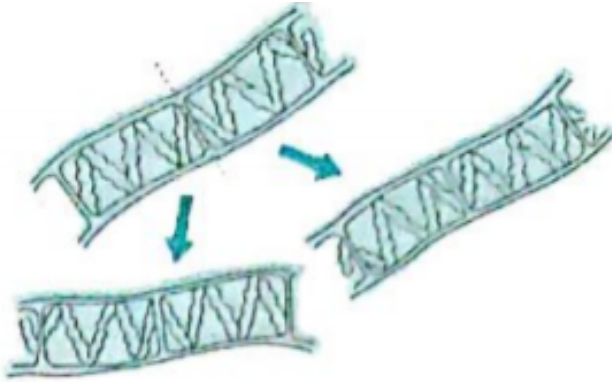


Watch Video Solution

102. Answer the following questions in short:

What is the type of asexual reproductive

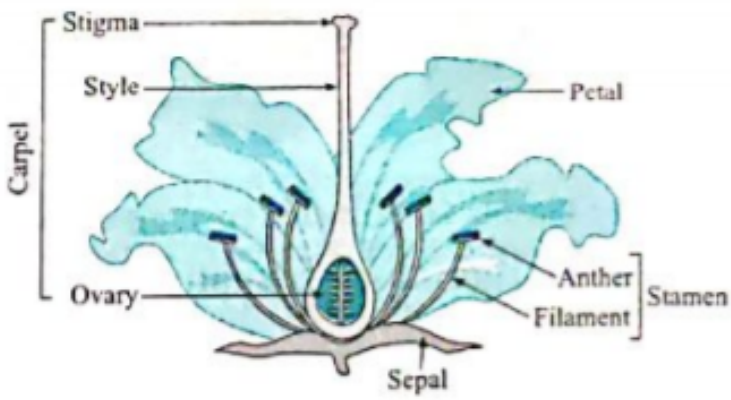
shown in the diagram below?



Watch Video Solution

103. Answer the following questions in short:

Describe the structure of a flower.



Watch Video Solution

104. Explain sexual reproduction in plants.



Watch Video Solution

105. In case of sexual reproduction, newborn shows similarities about characters. Explain this statement with suitable examples.



Watch Video Solution

106. Describe the male reproductive system.



Watch Video Solution

107. Describe the female reproductive system.



[Watch Video Solution](#)

108. What is menstrual cycle ? Describe it in brief.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

110. Answer the following questions in short:

"A couple shall have a male child or female child totally depends upon husband." Prove truthfulness of this statement with scientific reason.



Watch Video Solution

111. Modern techniques like surrogacy (surrogate mother), sperm bank and IVF

technique will help the human beings. Justify this statement.



Watch Video Solution

112. Despite of various diagnostic test, a couple could not have a child. In this situation, which remedies will you suggest ?



Watch Video Solution

113. Answer the following questions in short:

Explain the following concepts in shorts:

Surrogacy



Watch Video Solution

114. Answer the following questions in short:

Explain the following concepts in shorts:

In vitro Fertilization (IVF)



Watch Video Solution

115. Answer the following questions in short:

Explain the following concepts in shorts:

Sperm Bank



Watch Video Solution

116. Answer the following questions in short:

What problems cause infertility in couple?



Watch Video Solution

117. Explain the concept of IVF.



Watch Video Solution

118. Answer the following questions in short:

Explain the term: Modern technology of reproductive IVF.



Watch Video Solution

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



Watch Video Solution

120. In our country , there seems to be lack of awareness regarding reproductive health. Why ?



Watch Video Solution

121. Answer the following questions in short:

Write the symptoms of disease gonorrhea.



Watch Video Solution

122. Answer the following questions in short:

What precautions will you take to maintain reproductive health?



Watch Video Solution

123. Answer the following questions in short:

If a piece of bread is kept in a container in moist place for 2-3 days,

Write scientific name and a character of the organism you may observe.



Watch Video Solution

124. Answer the following questions in short:

If a piece of bread is kept in a container in moist place for 2-3 days,

Write scientific name and a character of the organism you may observe.



Watch Video Solution

125. Use your brain power.

Does the parent cell exist after asexual reproduction-fission ?



Watch Video Solution

126. Write short note on Multiple fission.



Watch Video Solution

127. Write short note on Regeneration.



Watch Video Solution

128. Write short note on Seed germination.



Watch Video Solution

129. Write a short note on Budding in Hydra.



Watch Video Solution

130. Write short note on Fragmentation.



Watch Video Solution

131. Growth of follicles present in the ovary occurs under the effect of _____. This follicle secretes estrogen. _____ grows /regenerates under the effect of estrogen. Under the effect of _____ fully grown up

follicle bursts, ovulation occurs and _____ is formed from remaining part of follicle . It secretes _____ and _____. Under the effect of these hormones, glands of _____ are activated and it becomes ready for implantation.



Watch Video Solution

132. Read the paragraph and answer the questions given below :

Reproduction is the process by which the living Species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce asexually by methods such as fragmentation, vegetative propagation, budding, Spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a

reproductive process because. basically it is a repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Answer the follolwing question.

How do living species continue their existence?



Watch Video Solution

133. Read the paragraph and answer the questions given below :

Reproduction is the process by which the living Species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce asexually by methods such as fragmentation, vegetative propagation, budding, Spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are

some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a reproductive process because. basically it is a repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Answer the follolwing question.

Which are asexual methods of reproduction in kingdom Animalia?



Watch Video Solution

134. Read the paragraph and answer the questions given below :

Reproduction is the process by which the living Species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce

asexually by methods such as fragmentation, vegetative propagation, budding, Spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a reproductive process because. basically it is a repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of

experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Answer the following question.

Why is regeneration not true method of reproduction?



Watch Video Solution

135. Read the paragraph and answer the questions given below :

Reproduction is the process by which the

living Species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce asexually by methods such as fragmentation, vegetative propagation, budding, Spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a reproductive process because. basically it is a

repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Answer the following question.

What are methods of reproduction in plants?



Watch Video Solution

136. Read the paragraph and answer the questions given below :

Reproduction is the process by which the living Species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce asexually by methods such as fragmentation, vegetative propagation, budding, Spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are

some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a reproductive process because. basically it is a repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Answer the follolwing question.

What is the modern method of reproduction aimed at in higher organisms?



Watch Video Solution

137. Sketch and label diagrams.

- i. Human male reproductive system ii. Human female reproductive system
- iii. Flower with its sexual reproductive system
- iv. Menstrual cycle



Watch Video Solution

138. Sketch and label diagrams.

i. Human male reproductive system ii. Human female reproductive system

iii. Flower with its sexual reproductive system

iv. Menstrual cycle



Watch Video Solution

139. Sketch and label diagrams.

i. Human male reproductive system ii. Human female reproductive system

iii. Flower with its sexual reproductive system

iv. Menstrual cycle



Watch Video Solution

140. Sketch and label diagrams.

i. Human male reproductive system ii. Human female reproductive system

iii. Flower with its sexual reproductive system

iv. Menstrual cycle



Watch Video Solution

141. Sketch the labelled diagrams:

Sketch and label the diagram showing self and cross-pollination.



Watch Video Solution

142. Diagram-based questions:

What is the period or menstruation?



Watch Video Solution

143. Diagram-based questions:

On which day does ovulation occur during menstrual cycle?



Watch Video Solution

144. Diagram-based questions:

During which period is corpus luteum active during menstrual cycle? Which hormones are secreted by corpus luteum?



Watch Video Solution

145. Diagram-based questions:

In menstrual cycle which reproductive organs undergo changes?



Watch Video Solution

146. Diagram-based questions:

Which period is said to be period of regeneration of endometrium?



Watch Video Solution

147. Diagram-based questions:

Which period is said to be period of secretions of glands in endometrium?



Watch Video Solution

148. Diagram-based questions:

Describe the type of reproduction?



Watch Video Solution

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



Watch Video Solution

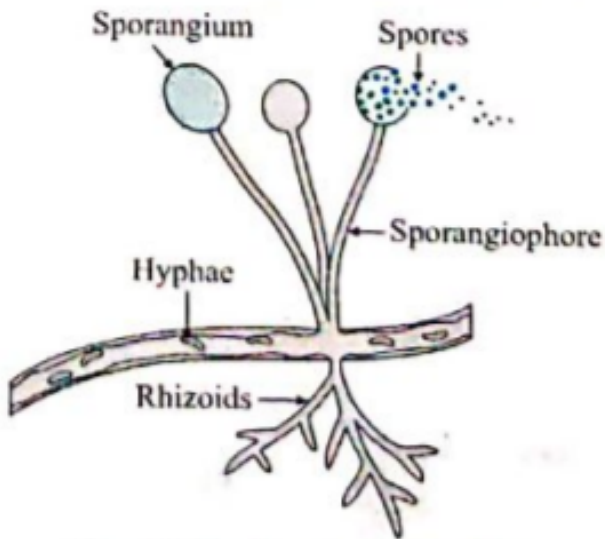
150. Prepare a slogan for campaign againsts female foeticide.



Watch Video Solution

151. Diagram-based questions:

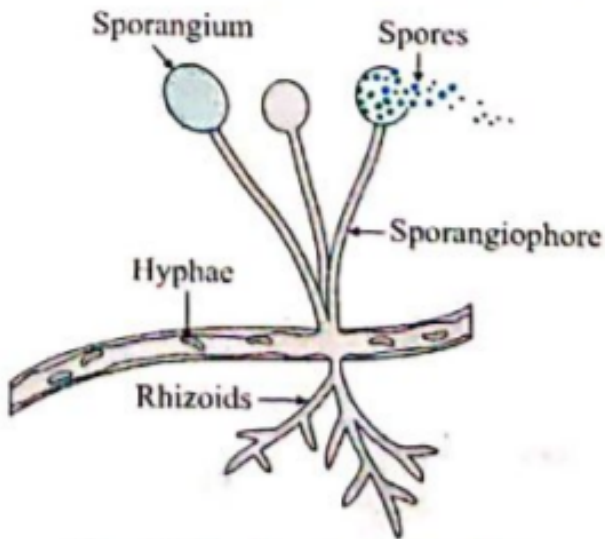
In the following figure explain how new fungal colonies of mucor are formed:



Watch Video Solution

152. Diagram-based questions:

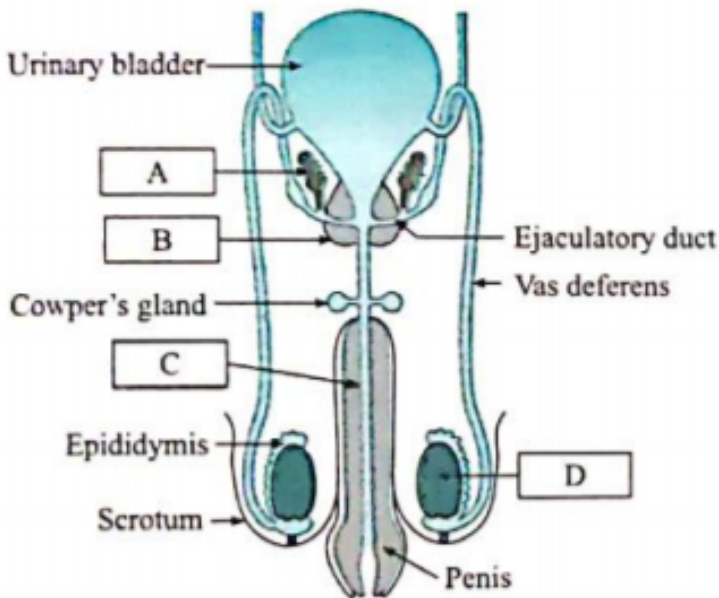
Identify and state the type of reproduction represented in the above figure.



Watch Video Solution

153. Diagram-based questions:

Write the answer to the questions by observing the figure



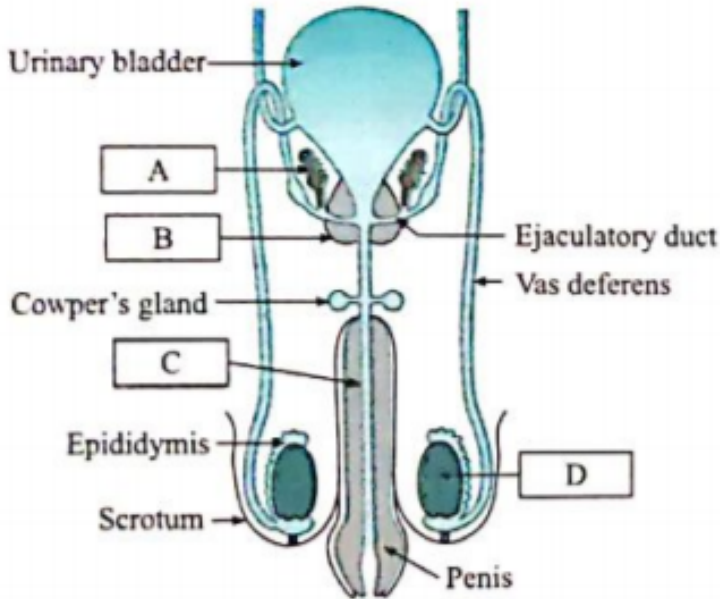
What does the above figure show?



Watch Video Solution

154. Diagram-based questions:

Write the answer to the questions by observing the figure



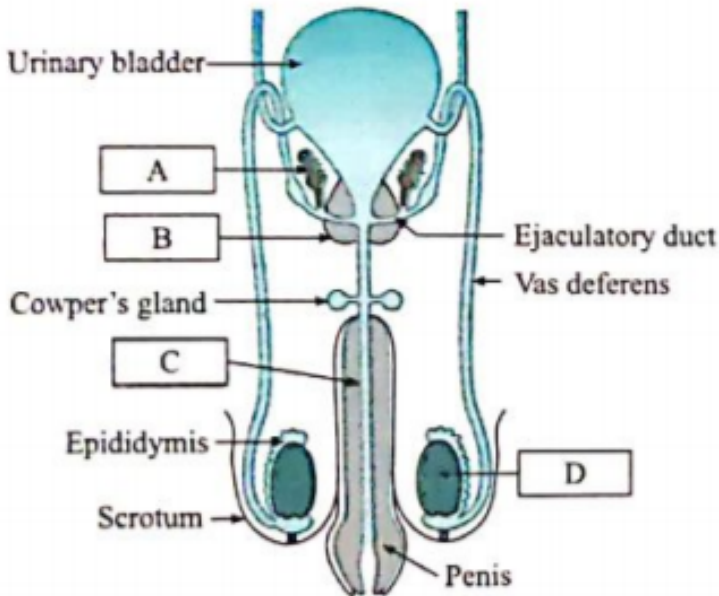
Write the names of parts A, B, C, D.



Watch Video Solution

155. Diagram-based questions:

Write the answer to the questions by observing the figure



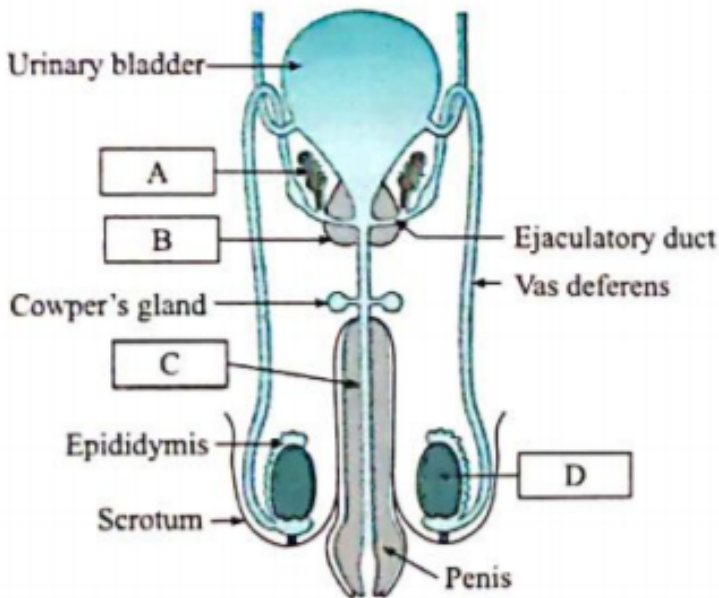
Write the function of the part 'D'.



Watch Video Solution

156. Diagram-based questions:

Write the answer to the questions by observing the figure



How is semen formed?



Watch Video Solution

157. Diagram-based questions:

Write the answers to the questions by observing the figure.



What process does the following figure show?

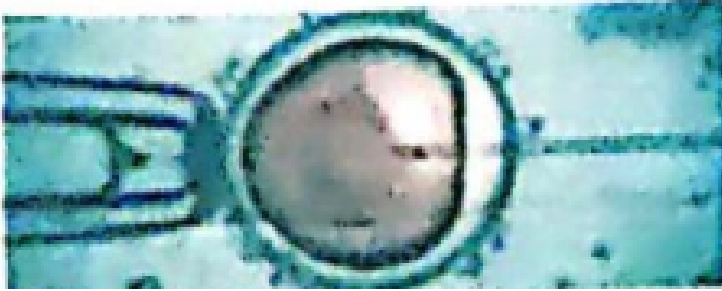


Watch Video Solution

158. Diagram-based questions:

Write the answers to the questions by

observing the figure.



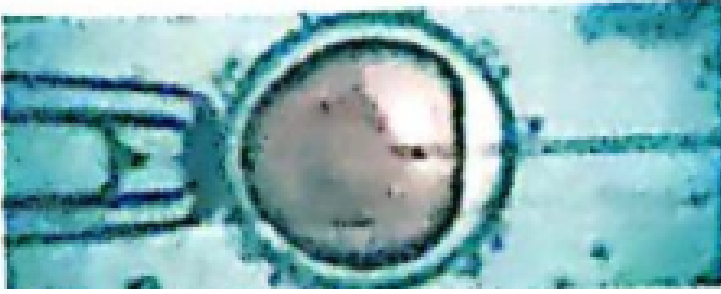
Describe in short that process.



Watch Video Solution

159. Diagram-based questions:

Write the answers to the questions by observing the figure.



Who can benefit from thatr process?



Watch Video Solution