



## BIOLOGY

### BOOKS - USHA BIOLOGY (ODIA ENGLISH)

#### MOST PROBABLE MODEL

#### Most Probable Model

1. Which of the following hormone is secreted by Placenta?

A. Growth

B. Insulin

C. Oxytocin

D. Human Chorionic Gonadotropin

**Answer:**



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2. Which of the following is the genetic material of HIV?

A. Double stranded DNA

B. Single stranded DNA

C. Double stranded RNA

D. Single stranded RNA

**Answer:**



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**3.** During which stage of oogenesis the number of chromosomes is reduced to half?

A. Formation of 1st Polar body

B. Formation of 2nd Polar body

C. Meiosis-II

D. Division of Second oocyte

**Answer:**



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**4.** Fill up the blanks with correct answer(s):

Genetically engineered animal is called a

\_\_\_\_\_ animal.



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5. The spread of cancerous cells to distant sites is termed as



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6. Synthetic DNA is synthesized with the help of enzyme \_\_\_\_\_ on DNA template.



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7. What is Amniocentesis?



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8. Genic Balance Theory.



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9. What is recombinant vaccine?



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10. Write Short Notes on:Artificial insemination and its significance.



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11. What do you mean by plasmid ?



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12. What is pregnancy?



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**13.** Difference between: Vasectomy and Tubectomy



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**14.** Differentiate between: Exonuclease and Endonuclease.



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**15.** Differentiate between antibody and antigen.



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**16.** Give an account of the human male reproductive system.



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**17.** Describe the stages of spermatogenesis and differentiate it from oogenesis.



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**18.** What is sex linked inheritance? Explain taking with examples of colourblindness and haemophilia.



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**19.** Write a notes on: Sex determination in honey bee.



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**20.** Write a notes on: Biosafety issues.



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**21.** Write a notes on: Steps of r-DNA technology and its applications.



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**22.** Write short notes on : Filariasis





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23. Which of the following Bt crop is being grown in India by the farmers?

A. Cotton

B. Brinjal

C. Rice

D. Maize

**Answer:**



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24. Which one of the following is correct for human population growth?

A. Lag

B. Stationary

C. Exponential

D. None of these

**Answer:**



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25. Which of the following is Diacetyl morphine?

- A. Heroin
- B. Hashish
- C. LSD
- D. Cocaine

**Answer:**



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26. Fill up the blanks with correct answer(s):

The process of synthesis of yolk in the oocyte of female is known as \_\_\_\_\_.



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27. Fill up the blank :The defect with testis due to which very less number of sperms are produced is called \_\_\_\_.



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28. T-cells become mature in \_\_\_\_.



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29. What is gastrulation? Give its significance.



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30. What are Interferons ?



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**31.** What are functions of sertoli cells ?



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**32.** What is Klinefelter syndrome ?



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**33.** Biopiracy.



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**34.** What are the causes of female infertility?



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**35.** Difference between: External fertilisation and Internal fertilisation.



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**36.** Distinguish between humoral immunity and cell-mediated immunity.



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**37.** Differentiate between : Primary sex organ and secondary sex organ



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**38.** Describe the process of Oogenesis.



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**39.** Give an account of the human female reproductive system,



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**40.** Give an account of the chromosomal basis of sex determination.



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**41.** Write a notes on: Biosafety issues.



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**42.** Write short notes on : Amoebiosis



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**43.** Write a short notes on: Haemophilia



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**44.** Write notes on : Cancer



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**45.** Which antibody is present in colostrum?



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**46.** What is the normal duration of menstrual cycle in woman ?



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**47.** What type of technique is used for amplification of DNA ?



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**48.** Fill up the blank :The defect with testis due to which very less number of sperms are produced is called \_\_\_\_.



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49. If a haemophilic man marries a normal woman, all the daughters will be\_\_\_\_\_.



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50. Explain STD?



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51. What is MTP?



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**52.** What do you mean by genetically modified organism (GMO) and its applications in agriculture. [2018(A)]



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**53.** What is Turner's syndrome ?



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**54.** What are the functions of placenta ?



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**55.** Write down different types of cancer.



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**56.** Differentiate between the Plasmid and Chromosomal DNA.



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**57.** Differentiate between sperm and ovum.



**Watch Video Solution**

**58.** Cancer cells and Normal cells.



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**59.** Explain the chromosomal basis of sex-determination in animals.



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**60.** Give an account of the chromosomal disorders in humans with reference to Down's syndrome, Klinefelter's syndrome and Turner's syndrome.



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**61.** Give an account of the human male reproductive system.





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**62.** Write short notes on : Implantation



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**63.** Write notes on: Colourblindness



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**64.** Write notes on: Fertilization





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**65.** Write notes on : AIDS



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**66.** AIDS is caharacterised by sharp reduction  
in number of :

A. Suppressor T-cell

B. B-lymphocytes

C. Killer T-cells

D. Helper T-cells

**Answer:**



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**67. LSD IS a :**

A. Antidepressant

B. Hallucinogen

C. Stimulant

D. Narcotic

**Answer:**



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**68.** Which of the following enzyme is used in genetic engineering?

A. DNA age

B. Restriction endonuclease

C. Topoisomerase

D. Translocase



**Answer:**



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**69.** Which enzyme joins DNA fragments ?



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**70.** Name the term for pre-natal diagnostic technique aimed to know the sex developing foetus and congenital disorder.



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71. Fill up the blanks with correct answer(s): The confirmative test for AIDS is \_\_\_ blotting.



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72. Fill up the blanks with correct answer(s) : Cerebral malaria is caused by \_\_\_\_\_.



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**73.** The milk produced during initial stage of lactation is called\_\_\_\_\_.



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**74.** What is lactation ? Write down its mechanism.



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**75.** Mention the causes of drugs addiction?



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**76.** What do you mean by surrogate mother?

Explain.



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**77.** Write notes on: Biopatent



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**78.** What is AIDS? How can it be prevented?



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**79.** What is meant by transgenic animal ?



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**80.** Difference between: Dominant Character and Recessive Character.



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**81.** Difference between: Benign Tumour and Malignant Tumour.



**Watch Video Solution**

**82.** Differentiate between: Stimulants and Hallucinogens.



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**83.** Briefly describe the various stages of recombination DNA technology of genetic engineering and its applications.



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**84.** Give an account of the human female reproductive system,



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**85.** What is sex linked inheritance? Explain taking with examples of colourblindness and haemophilia.



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**86.** Write notes on: Cell mediated immunity



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**87.** Write note on Thalassemia.





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**88.** Write notes on: Gene cloning



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**89.** Write short notes on : Ascariasis



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90. Determination of sex of a child depends upon ----

A. Nature of sperm

B. Nature of egg

C. Health of father

D. Age of mother

**Answer:**



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91. Short lived immunity acquired from mother to foetus across the placenta provides

- A. Active immunity
- B. Cell mediated immunity
- C. Passive immunity
- D. None of these

**Answer:**



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92. If a female physically develop male secondary sexual character, the syndrome is

-----

- A. Turner syndrome
- B. Down's syndrome
- C. Klinefelter's syndrome
- D. Super female

**Answer:**



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**93.** What is the number of chromosomes in the polar body of human ?



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**94.** Which is the common ancestor of great apes and men?



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**95.** Fill up the blanks with correct answer(s) :

Non-cellular layer that surrounds the human egg is \_\_\_\_\_.



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**96.** The fusion of male and female pronuclei is called .....



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**97.** Fill up the blanks with correct answer(s) :  
Study of antigen and antibody reaction is  
Known as \_\_\_\_\_.



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**98.** What is fertilization and give its  
significance?



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**99.** What is tubectomy ?



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**100.** What is criss-cross inheritance?



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**101.** What are the bioethical issues pertaining to biotechnology?



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**102.** What are the social implications of alcoholism ?



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**103.** Write on the treatment of malaria.



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**104.** Difference between: Temporary birth control and permanent birth control.



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**105.** Differentiate between: Innate immunity and Acquired immunity.



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**106.** Differentiate between: r-DNA and c-DNA.



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**107.** Give an account of the human male reproductive system.



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**108.** Explain various theories of sex determination in animals.



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**109.** Describe the stages of spermatogenesis and differentiate it from oogenesis.



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**110.** Write notes on: Amoebiasis



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**111.** Write a note on placenta.



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**112.** Write notes on : Genetically modified organism.



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**113.** Write notes on : AIDS



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**114.** Which layer of the uterus is shed off during menstruation ?

A. Endometrium

B. Myometrium

C. Perimetrium

D. Pericardium

**Answer:**



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115. Lippes loop is the example of—

- A. female condom
- B. non-medicated IUD
- C. hormone releasing
- D. Barrier method of contraception

**Answer:**



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116. Gene for haemophilia is —

- A. X-linked recessive
- B. X-linked dominant
- C. Y-linked
- D. Autosomal.

**Answer:**



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**117.** Which enzyme is released from the acrosome of sperm head ?





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**118.** Which is the most valuable and effective analgesic derived from opium ?



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**119.** The phenomenon of inheritance in which the father passes its sex-linked character to his daughter who in turn passes it to the grandson is called ----



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**120.** Fill up the blanks with correct answer :  
DNA used as a carrier for transferring a fragment of foreign DNA into a suitable host is called \_\_\_\_.



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**121.** Fill up the blanks with correct answer :  
Hypersensitivity of the body against foreign particles is called \_\_\_\_.





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**122.** Write notes with 2 to 3 important points :

Control of malaria



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**123.** Write notes with 2 to 3 important points :

Advantages of sexual reproduction



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**124.** Write notes with 2 to 3 important points :  
Spermiogenesis.



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**125.** Write notes with 2 to 3 important points :  
Genetically modified organism



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**126.** Write notes with 2 to 3 important points  
:Causes of drug addiction?



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**127.** Write notes with 2 to 3 important points :  
Turner's Syndrome.



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**128.** Differentiate between : Immunodeficiency  
and Autoimmune diseases



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**129.** Difference between: Combined pills and Minipills.



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**130.** Difference between: Haemophilia -A and Haemophilia-B.



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**131.** Give an account of the human male reproductive system.



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**132.** Explain various theories of sex determination in animals.



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**133.** Briefly describe the various stages of recombination DNA technology of genetic engineering and its applications.



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**134.** Write notes on : Oogenesis



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**135.** Write notes on : Multiple fission





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**136. Write notes on: Colourblindness**



**Watch Video Solution**

**137. Write notes on : Human insulin**



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**138.** What are the gene pair signifying a trait called?

- A. Hybrid
- B. Phenotype
- C. Pure line
- D. Alleles

**Answer:**



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**139.** Which one of the following is concerned with asexual reproduction ?

A. zygote

B. spores

C. Gametes

D. Gonads

**Answer:**



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**140.** Which restriction enzymes are ideal for recombinant DNA technology ?

A. Type-I

B. Type-II

C. Type-III

D. Type-IV

**Answer:**



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**141.** Which day is observed as world 'No Tobacco' day ?



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**142.** Which enzyme is used to synthesize the DE 'A by using m-RNA as a template.



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**143.** Fill up the blanks with correct answer(s):

L.S.D. is a natural \_\_\_ drug.



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**144.** The infective stage of filarial is\_\_\_\_\_.



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**145.** Fill up the blanks with correct answer(s) :

Sterilization in case of human male is called

\_\_\_\_.



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**146.** Write notes with 2 to 3 important points:

Thalasemia



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**147.** What are carcinogen?



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**148.** What are Assisted Reproductive Technologies (ART) ? Suggest some methods

for it.



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**149.** Write note on antigen ?



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**150.** Write notes with 2 to 3 important points:

Biopiracy



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**151.** What is parthenogenesis ?



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**152.** Difference between: Blastula and Gastrula.



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**153.** Difference between: Schizogony and Gamogony.



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**154.** Difference between: Stimulant and Depressant.



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**155.** Describe the structure of human female reproduction system.



**Watch Video Solution**

**156.** Give an account of the chromosomal basis of sex determination.



**Watch Video Solution**

**157.** Write a notes on: Steps of r-DNA technology and its applications.



**Watch Video Solution**

**158.** Write notes on: Amoebiasis



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**159.** Write a short notes on: Haemophilia



[Watch Video Solution](#)

**160.** Write notes on : Interferon



[Watch Video Solution](#)

**161.** Write short notes on : Implantation



[Watch Video Solution](#)

**162.** What is the causative organism of filariasis ?



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**163.** How many sperm are produced from a single primary spermatocyte ?



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**164.** Fill up the blanks with correct answer :

The degenerated corpus luteum is called \_\_\_\_ .



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**165.** Fill up the blanks with correct answer :

Monoclonal antibodies are synthesized by a hybrid cell called \_\_\_\_ .



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**166.** Fill up the blanks with correct answer :

Sarcoma is the cancer of \_\_\_\_ .



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**167.** What is criss-cross inheritance?



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**168.** Role of of r-DNA technology



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**169.** Write notes on: Fertilization and its significance



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**170.** What is parturition ? Give a brief account.



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**171.** Write notes on: Chemical evolution





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**172.** Explain vestigial organ.



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**173.** Differentiate between : B-lymphocytes and T-lymphocytes



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**174.** Differentiate between : Corpus luteum and corpus albicans.



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**175.** Differentiate between : Sporogony and Schizogony



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**176.** Describe the process of Spermatogenesis.



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**177.** What is sex linked inheritance? Explain taking with examples of colourblindness and haemophilia.



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**178.** Give an account of the human male reproductive system.



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**179.** Write notes on : Thalassemia.



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**180.** Genic Balance Theory.



**Watch Video Solution**

**181.** Write notes on : AIDS



**Watch Video Solution**

**182.** Write a notes on: Sex determination in honey bee.



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**183.** Drugs which induce dreamy state of consciousness are called ----.

A. Sedative

B. Hallucinogen

C. Barbiturates

D. Stimulant

**Answer:**



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**184.** The principles of vaccination was first given by—

A. Salk

B. Louis Pasteur

C. Jenner

D. Kohler

**Answer:**



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**185.** Which of the following hormones is responsible for inducing both spermatogenesis and oogenesis ?

A. FSH

B. Progesterone

C. Estragen

D. Testosterone

**Answer:**



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**186. FILL UP THE BLANKS :** The cytoplasmic organelle \_\_ is associated with cortical granule formation in sperm cell.

A. Mitochondria



B. Golgibody

C. Centriole

D. E.R.

**Answer:**



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**187.** Which of the following is the most effective method of contraception ?

A. IUD

B. Use of condom

C. Tubectomy

D. Lactational ammenorrhea.

**Answer:**



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**188.** The son receives X-chromosome from—

A. Father only

B. Mother only

C. cytoplasm of egg

D. both (i) and (ii)

**Answer:**



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**189.** Mammalian placenta is formed from

A. Yolk sac

B. Chorionic allantois

C. Chorion

D. Amnion

**Answer:**



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**190.** What is the place called where spermatozoa enters the ovum during fertilization ?



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**191.** The grain of golden rice is yellow in colour due to presence of \_\_\_\_\_.



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**192.** Fill up the blanks with correct answer :  
Cirrhosis of liver is caused by the excess intake of \_\_\_\_\_.



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**193.** Malignant tertian malaria is caused by\_\_\_\_\_.



**Watch Video Solution**

**194.** What is allergy ?



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**195.** Write Short Notes on:Artificial insemination and its significance.



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**196.** Write note on: Steps involved in production of r-DNA technology.



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**197.** What are the social implications of alcoholism ?



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**198.** What is Immunoglobulin ?



**Watch Video Solution**

**199.** Write short notes on : Parturition



**Watch Video Solution**

**200.** Difference between: Vaccine and antiserum.



**Watch Video Solution**



**201.** Differentiate between : B-lymphocytes and T-lymphocytes



**Watch Video Solution**

**202.** Distinguish between: Homozygous and heterozygous



**Watch Video Solution**

**203.** Give an account of the chromosomal basis of sex determination.



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**204.** What is sex linked inheritance? Explain taking with examples of colourblindness and haemophilia.



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**205.** Give an account of the chromosomal disorders in humans with reference to Down's syndrome, Klinefelter's syndrome and Turner's syndrome.



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**206.** Write a notes on: Biosafety issues.



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**207.** Write note on : Ring worm



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**208.** Write short notes on : Menstrual cycle



**Watch Video Solution**

**209.** Write notes on : AIDS



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