



# BIOLOGY

## BOOKS - USHA BIOLOGY (ODIA ENGLISH)

### PRACTICE PAPER

#### Practice Paper

1. Pollination takes place by insect is \_\_\_\_ .

A. Anemophily

B. Entomophily

C. Ornithophily

D. hydrophily

**Answer: B**



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2. The examples of stop codons are \_\_\_\_\_.

A. UAA,UAG,UGA

B. UAA,AUG,AUA

C. UAA,UCA,UGA

D. AUG,GUG,UAA

**Answer: A**



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**3.** Red(RR) Antirrhinum is crossed with white (rr) one. The  $F_1$  hybrid is pink. This an example of \_\_\_\_.

A. Complete dominance

B. Codominance

C. incomplete dominance

D. complete recessive

**Answer: C**



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**4.** The antibiotic Streptomycin is obtained from

A. *S. griseus*

B. *S. aureofaciens*

C. *S. noursei*

D. *Saccharomyces cerevisiae*

**Answer: A**



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5. Conservation of wild animals and plants in sanctuaries and national park is \_\_\_\_\_.

A. Ex-situ conservation

B. In-situ conservation

C. in vitro conservation

D. in vivo conservation

**Answer: B**



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**6. Write notes: Alcoholic beverages**



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7. Write notes: Niche



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8. Write notes: m- RNA



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9. Write notes with 2 to 3 important points :

Parthenocarpy



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**10.** Write notes: Red data book

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**11.** Write notes: Incomplete dominance

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**12.** Differentiate between: Linked genes and  
unlinked genes





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**13.** Differentiate between: Biocontrol agents and biofertilizers



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**14.** Differentiate between: Self pollination and cross pollination



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**15.** Give an account of development of female gametophyte in angiosperms.



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**16.** Discuss Mendel's dihybrid cross with checker board.



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**17.** Describe the structure of DNA studied by Watson and Crick.



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**18.** Describe the process replication of DNA with suitable diagram.



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19. An association essential and beneficial to both the partners is\_\_\_\_\_

- A. Mutualism
- B. Commensalism
- C. Amensalism
- D. Competition

**Answer: A**



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20. \_\_\_\_\_ is produced as a results of double fertilization.

A. Seed

B. Fruit

C. megaspore

D. Endosperm

**Answer: D**



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21. Heterozygous tall ( $Tt$ ) is crossed with homozygous tall ( $TT$ ). Percentage of heterozygous tall in the progeny would be \_\_\_\_\_.

A. 0.25

B. 0.5

C. 0.75

D. 1

**Answer: B**



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22. The main constituent of biogas is \_\_\_\_\_.

- A. Methane
- B. Carbon dioxide
- C. Carbon monoxide
- D. Hydrogen sulphide

**Answer: A**



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23. Biodiversity act of India was passed in \_\_\_\_\_.

A. 1992

B. 1996

C. 2000

D. 2002

**Answer: D**



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**24. Write note:Operon concept**



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**25. Write note:Apomixis**



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**26. Write note:Biodiversity hotspots**



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**27. Write Shortnotes on: Biofertilizer**



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**28. Write note: Codominance**



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**29. Write note: Predations**



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**30.** Differentiate between zoospores and conidia.



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**31.** Differentiate between: Primary sludge and activated sludge



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**32.** Distinguish between: Natality and mortality



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**33.** Describe briefly about the process of double fertilization with suitable diagram.



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**34.** Discuss Mendel's monohybrid cross with checker board.



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**35.** Describe initiation step of translation in prokaryotes.



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**36.** Answer within 200 words : Give a structure of a typical pollen grain and its pre- and post-pollination changes .



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37. Which of the following surrounds the penile urethra of man?

- A. Corpus striatum
- B. Corpus cavernosa
- C. Corpus spongiosum
- D. both (ii) and (iii)

**Answer:**



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38. Sex determination in *Drosophila melanogaster* is based on---

A. XX-mechanism

B. Genic balance between X-chromosome and autosome

C. Pseudoalleles

D. Environmental chromosome interaction

**Answer:**



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**39.** Which of the following is/are formed during gastrulation?

A. Ectoderm and Endoderm

B. Endoderm

C. Mesoderm

D. Ectoderm, mesoderm, and endoderm

**Answer:**



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**40.** Fill in the blanks with correct answer:

Trisomy 21st chromosome in human male leads to \_\_\_\_\_ syndrome.



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**41.** Fill in the blanks with correct answer:

Cancer in gland cell is called \_\_\_\_\_.



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

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



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

Function of Placenta.



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**44.** Write note on Thalasemia.



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

Effect of indiscriminate use of drugs.



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

What is acquired immunity?



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

What do you mean by Biopiracy?



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

What is medical termination of pregnancy (MPT)?



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**49.** Differentiate between: Primary oocyte and Secondary oocyte.



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



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**51.** Differentiate between: In vivo fertilization and In vitro fertilization.



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



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



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



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**55. Write notes on : Klinefelter syndrome**



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



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**57. Write notes on: Biopatent**



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**58.** Write notes on : AIDS



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**59.** Fill in the blanks with correct answer(s): In the life cycle of plasmodium in female Anopheles mosquito, the zygote elongates and become motile called \_\_\_\_\_.



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**60.** Fill in the blanks with correct answer(s): In the genic balance theory of Calvin Bridges, if the ratio of the number of X-chromosome to the number of sets of autosomes is 1 , then the offspring develops into\_\_\_\_\_.

A. Femaleness

B. Maleness

C. Both A and B

D. None of the above

**Answer:**



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**61.** Fill in the blanks with correct answer(s):

\_\_\_\_\_ enzyme is called as the molecular scissor in genetic engineering.



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**62.** Write notes with 2 to 3 important points

:What is Pallindromic nucleotide sequence?

A. Hind-II

B. Hind-III

C. Hind-I

D. None

**Answer:**



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**63.** Write notes with 2 to 3 important points

:What is LSD?



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**64.** Write notes with 2 to 3 important points  
:Immunoglobulin.



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**65.** Write notes with 2 to 3 important points  
:What is the causative agent, symptoms &  
control of typhoid?



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**66.** Write notes with 2 to 3 important points

:Causes of drug addiction?



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**67.** Write notes with 2 to 3 important points

:What is invitro fertilization (IVF)?



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



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**69.** Differentiate between: Down's syndrome and Turner's syndrome



**Watch Video Solution**

**70.** Differentiate between: Phenotype and genotype



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



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**72.** Describe the chromosomal basic of sex determination in human,honey bee and birds.



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**73.** What is oogenesis? Give a brief account of oogenesis.



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**74.** Write notes on : Cancer



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**75.** Write notes on: What do you mean by gene therapy?



**Watch Video Solution**

**76.** Write notes on : Vaccination



**Watch Video Solution**

77. Write a short notes on: Haemophilia



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