



# BIOLOGY

## BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

MARCH 2018

### Section I

1. The phenotypic ratio of incomplete dominance is

A. 1:1

B. 3:1

C. 1:2:1

D. 9:3:3:1

**Answer: C**



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2. Nucleoside is a nucleotide without .....

A. sugar

B. nitrogen base

C. hydrogen. bond

D. phosphate group

**Answer: D**



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**3. Which of the following is white button mushroom ?**

A. *Agaricus bisporus*

B. Pleurotus florida

C. Volvariella volvacea

D. Candida species

**Answer: A**



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**4. Brown rust of wheat is caused by .....**

A. viruses

B. bacteria

C. fungi

D. aphids

**Answer: C**



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**5. The reaction centre of P. S. II is .....**

A. Chl-a, 700

B. Chl-a, 680

C. Chl-a, 673

D. Chl-a, 650

**Answer: B**



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**6.** The enzymes required for synthesis of ATP are located on .....

A. oxysomes

B. cristae

C. matrix

D. ribosomes

**Answer: A**



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7. In a food chain, the herbivores are represented by

A. producers

B. primary consumers

C. secondary consumers

D. decomposers

**Answer: B**



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**8. What is leaching ?**



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**9. Define chemoautotrophs.**



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**10.** Name the cell organelle in which Krebs' cycle occurs.



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**11.** Deforestation.



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**12.** Give the microbial source of Vit.  $B_{12}$



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**13.** What is primary treatment of sewage?



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**14.** Sketch and label a pollen grain of angiosperms.



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**15.** Enlist the basic steps involved in recombinant DNA technology.



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**16.** Give two examples of microbial pesticides with their hosts



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**17.** Give the significance of respiration.



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**18.** Explain energy pyramid.



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**19.** With the help of a suitable diagram describe the structure of a nucleosome.



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20. Describe the steps of PCR technique



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21. Describe different steps involved in tissue culture technique.



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22. Sketch and label T.S. of a leaf showing Kranz anatomy.



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**23.** With the help of a neat and labelled diagram describe the development of female gametophyte of angiosperms.



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**24.** Explain "the law of independent assortment" with a suitable example.



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## Section II

1. ....is used for desalination of brackish water.

A. Reverse osmosis

B. Ion-exchange

C. Adsorption

D. Electrodialysis

**Answer: A**



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2. Which of the following is mesodermal in origin ?

A. Retina

B. Enamel of teeth

C. Heart

D. Liver

**Answer: C**



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3. ....is an exotic breed of cow

A. Gir

B. Sindhi

C. Sahiwal

D. Jersy

**Answer: D**



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4. ....maintains basic metabolic rate

A. Thyroxine

B. ADH

C. GH

D. Oxytocin

**Answer: A**



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5. Which of the following is an example of ZW-ZZ type of mechanism of sex determination ?

A. Honeybee

B. Fish

C. Bird

D. Human being

**Answer: C**



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6. Transfer of gene between populations that differ genetically from another is called .....

A. Gene mutation

B. Gene flow

C. Genetic drift

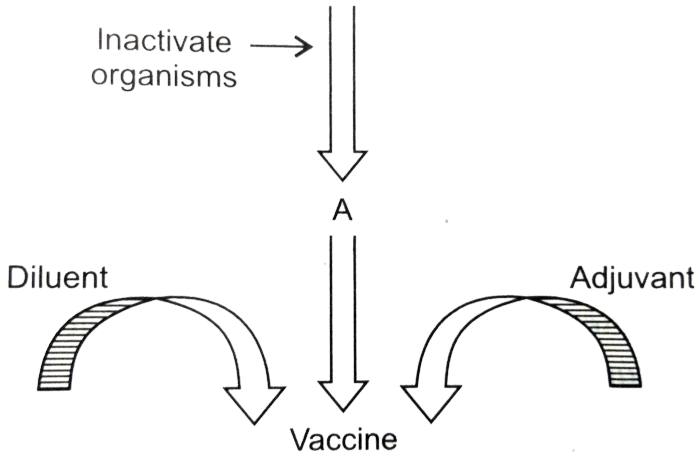
D. Genetic recombination

**Answer: B**



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7. In the given diagram of vaccine manufacturing process 'A' is .....



A. antigen

B. antibody

C. antitoxin

D. antibiotics

**Answer: A**



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8. Longer toes and long prehensile tail indicate which adaptation ?



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9. What does 'IUCD' indicate ?



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**10.** Name the valve between left atrium and left ventricle and give its significance .



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**11.** Give the use of bovine growth hormone.



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**12.** State any 'two' symptoms of Down's syndrome.



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**13.** Mention any 'one' skeletal difference between ape and man.



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**14.** Sketch and label structure of Antibody.



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**15.** Name the causative organism of 'typhoid' and draw its diagram.



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**16.** State the economic importance of 'lac culture',



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**17.** All organisms produce more young ones'.

Comment.



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**18.** Describe 'agranulocytes' with the help of diagrams.



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**19.** Define parasitism and give any 'two' types with suitable example of each.



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**20.** Describe the structure of chromosome with a suitable diagram.



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21. Define 'genomics'. Give any 'two' applications of it.



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22. Sketch and label Malpighian body.



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23. Describe the histology of 'human testis'.

Write a note on human sperm.



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**24.** With the help of a neat and labelled diagram describe the anatomy of 'human eye'.  
Explain the mechanism of vision.



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