

BIOLOGY

BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

JULY 2010

Section I Botany

1. Genotype of human blood group 'O' will be

•••••

A. I^AI^A

 $\mathsf{B}.\,I^AI^B$

C. ii

D. $I^A i$

Answer: C



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2. Cry' genes are present in

A. Agrobacterium tumefaciens

- B. Bacillus thuringiensis
- C. Rhizobium species
- D. Escherichia coli

Answer: A



- 3. Tropane' is obtained from
 - A. Daucus carota
 - B. Catharanthus roseus

- C. Datura stramoneum
- D. Mentha piperata

Answer: A



- **4.** Which of the following vitamins is not fat soluble?
 - A. Vitamin A
 - B. Vitamin B

C. Vitamin D

D. Vitamin K

Answer: B



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5. How many meiotic divisions are required to produce 200 seeds ?

A. 50

B. 100

C. 200

D. 250

Answer: A



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6. Energy flow in ecosystem is

A. reverse

B. unidirectional

C. bidirectional

D. multidirectional

Answer: B



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7. Endosperm of angiosperm is

A. haploid

B. diploid

C. triploid

D. tetraploid

Answer: C



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8. BACTERIOPHAGE



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9. What is emasculation?



10. What is VAM ?



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11. What is the role of decomposers in the ecosystem?



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12. Name any two edible mushrooms.



13. What is ecological succession?



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14. Sketch and label the 'Ultrastructure of Mitochon-drion'.



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15. Give the floral adaptations for anemophily.



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16. Name any two antibiotics with their microbial source.



17. Describe the formation of helobial endosperm.



18. Give the hazardous effects of agrochemicals.



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19. Explain incomplete dominance with sutiable example.



20. What are transgenic plants? Explain with any two examples.



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21. Explain micropropagation and somatic hybridization.



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22. Sketch and label stages in development of angiospermic female gametophyte from functional megaspore.



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23. Give the centrol dogma of protein synthesis. Explain the process of translation.



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24. What is dark reaction in photosynthesis?

Describe C_3 Pathway.



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Section Ii Zoology

1. Vermiform appendix is an example of organ.

A. vestigeal

- B. homologous
- C. sense
- D. analogous

Answer: A



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2. In which of the following disorders number of chromosomes present is 47?

A. Turner's syndrome

- B. Cushing's syndrome
- C. Acquired Immuno-Deficiency Syndrome
- D. Down's syndrome

Answer: D



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3. Human blood clotting factor VIII is used to treat

A. pituitary dwarfism

C. haemophiliacs
D. cystic fibrosis
Answer: C
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4. A person suffering from diabetes insipidus
shows
A. hyperglycemia

B. diabetes mellitus

B. hypoglycemia	
C. polyuria	
D. hypertension	
Answer: C	
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5. Photoreceptor cells are present in	
••••••	
A. blind spot	

B. retina
C. cochlea
D. cornea
Answer: B
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6. HAART' is suggested for the treatment of
A. malaria

B. cancer
C. AIDS
D. high cholesterol level
Answer: C
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7. For DNA fingerprinting radioactive probe obtained from Is used in India.

A. Banded Krait

- B. King Cobra
- C. Viper
- D. Rat snake

Answer: A



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8. Give any two examples of commensalism.



9. What is the common name of Apis mellifera ?



10. Which growth hormone is used to enhance dairy productivity?



11. Define linkage.



12. Name of two classes to which Archaeopteryx acts as connecting link.



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13. Define the term natality.



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14. Sketch and label Malpighian body.



15. Enlist any four sequential evolutionnary names of human ancestors.



16. Give the significance of transgenic animals for betterment of life.



17. Give the economic importance of lac.



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18. Give the fate of mesoderm.



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19. Explain the mechanism of Sexdetermination in birds.



20. ACQUIRED IMMUNITY



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21. With the help of pyramid, describe the growing population.



22. What is reflex arc? Draw a labelled diagram to show reflex arc on touching a very hot object.



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23. Explain the process of early cleavage till the formation of morula.



24. Describe five types of leucocytesm, with the help of diagrames, Add a note on their functions.

