

BIOLOGY

BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

JULY 2018

Section I

1. In an octamer of the nucleosome core DNA

consists of ____ base pairs.

A.	46

B. 146

C. 246

D. 346

Answer: B



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2. A versatile anther is an adaptation for _____type of pollination.

- A. anemophilous
- B. enthomophilous
- C. hydrophilous
- D. ornithophilous

Answer: A



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3. ____ is an example of G.M. crop developed for its nutritional value by using soil bacterium Erwinia.

A. IR 8
B. Taichang Native -I
C. Vijaya
D. Golden rice
Answer: D Watch Video Solution
4. The energy enters the ecosystem through

- A. consumers
- B. decomposers
- C. omnivores
- D. producers

Answer: D



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5. Identify free-enters living bacterial biofertilizer

- A. Rhizobium
- B. Azotobacter
- C. Nostoc
- D. Bacillus thuringiensis

Answer: B



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6. ____ is a soil bacterium which causes crown gall tumours in dicotyledonous plants.

- A. Agrobacterium tumifactiens
- B. Bacillus thuringiensin
- C. Haemiphilous influenzae
- D. Eschericahia coli.

Answer: A



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7. Which of the following harmful radiation is absorbed by ozone layer of the stratosphere?

- A. X-ray
- B. Visible light
- C. Ultraviolet rays
- D. Gamma rays

Answer: C



- 8. Answer in 'one' sentence only:
- (i) Define 'mutation breeding "



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9. Enlist the histones which form an octamer of nucleosome.



10. Name any one 'therapeutic product of blood proteins made by using r-DNA technology.



11. Name the strain of yeast used in industrial production of wine.



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12. Identify which one of the following is a test cross.

(i)
$$Tt imes Tt$$
 (ii) $op imes$ (iii) $Tt imes$



13. Define 'stock and scion '.



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14. Sketch and label 'structure of a pea flower.



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15. The gene for sickle-cell anaemia in homizygous condition is lethal and produces sickle cell trait in heterozygous carrier. Explain.



16. Enlist the applications of tissue culture.



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17. Describe any two factors affecting the rate of photosynthesis.



18. Define the terms codon and anticodon.



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19. Explain in brief biogas production process with the help of a labelled figure.

OR

What is biogas? Write in brief about the production process.



20. Define 'deforestation'. Comment on its effects.



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21. With the help of a suitable example illustrate palindrome.



22. Sketch and label diagrammatic semiconservative replication of DNA.



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23. What is 'vegatative reproduction'? Explain 'any three' natural methods of vegetative reproduction with the help of suitable diagrams.



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24. What is 'glycolysis? Describe various steps involved in glycolysis using schematic representation.



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Section li

1. The origin of life on the earth is known as

0

2. Down's syndrome is represented by ____

A. n+1

B. 2n+1

C. 3n+1

D. n-1

Answer: B



3	is a	a ho	rmone	that	regulates	amount
of gluco	se (suga	ar) in th	ne blo	od .	

- A. angiotensin
- B. insulin
- C. adrenalin
- D. erythropoietin

Answer: B



4. VNTR	is
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- A. variable number of tandem repeats
- B. various number of tander repeats
- C. vulnerable number of tandem repeats
- D. variable number of tandem reports

Answer: D



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5. Cocaine alkaloid is obtained from____ plant.

- A. Marijuana
- B. Papaver somniferum
- C. Cannabis sativa
- D. Coca

Answer: D



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6. The transparent anterior portion of sclera of eye is called____

B. lens				
C. ciliary body				
D. cornea				
Answer: D				
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A. iris

- A. Two ogranisms are benefitted from each other
- B. one organism is benefitted and other is harmed
- C. both are harmed from each other
- D. an association in which one is parasite and other is host .

Answer: A



8. Give the example of connecting link between reptiles and birds.



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9. On the basis of origin write the various poultry breeds used in poultry.



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10. Define linkage.



11. Write benefits of transgenic animals.



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12. Give names of cranial nerve numbers VI and

VII





13. State the formula to calculate natality.



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14. Draw a labelled diagram of human heart.



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15. Describe the ultrastructure of human sperm with the help of a well-labelled figure .



16. Explain the concept of struggle for existence.



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17. Give economic importance of fishery.



18. Name the two types of maps generated by HGP.



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19. A carrier haemophilic female marries a normal male. What will be the phenotype of progeny?

Explain with suitable chart.



20. Describe various causes of water pollution.



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21. Explain in brief the mechanism of antibody antigen complexed formation with a neat labelled diagram.



22. Sketch and label the lateral view of human brain.



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23. Draw a neat labelled diagram of T.S. of ovary and describe various phases of menstural cycle.



24. Describe the structure of human excertory system with suitable diagram. Add a note on the process of urine formation.

