



BIOLOGY

BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

MARCH 2019

Section A

1. As the base sequence present on one stand

of DNA decides the base sequence of other

strand, this strand is considered as

A. Descending strand

B. Leading strand

C. Lagging strand

D. Complimentary strand

Answer: D



2.shows haplo-dialoid type of sex-determination.

A. Pigeon

B. Honey bee

C. Parrot

D. Snake

Answer: B



3. Membrance bound receptors and hormones produce second messengers like

- A. Renin
- B. IP_3
- C. ANF
- D. GHRF

Answer: B



4. During double fertilization second male gamete fuses with....

A. antipodal cell

B. egg cell

C. secondary nucleus

D. synergids

Answer: C



5. What is Sinus arrhythmias? **Watch Video Solution 6.** By which process ammonia is converted into urea in liver? **Watch Video Solution**

7. Give the role of plasmids in bacterial cell.

8. A person is showing symptoms like increased BMR, heart rate, blood pressure and deposition of fats in eyes sockets . Name the disease he is suffering from .



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Section B

1. Define apiculture . Name the products obtained from it .

2. Define biofertilizer. Give two types of fungal biofertilizers.



3. Give the types of blood proteins and human hormones produced by recombinant DNA technique.



4. Write any two scientific and commercial values of transenic animals in favour of human beings .



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5. Define Respiratory Quotient (RQ) and calculate the respiratory quotient of carbohydrate.



6. Light and dark reactions are interdependent. Explain



7. Classify the chromosomes on the basis of position of centromere.



8. Sketch and label structure of male gametophyte in angiosperm . What Siphonogamy?



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9. Match the following and rewrite:

Group'A'Group'B'(a)Diethyle Carbanmacine (1)AIDS (b) Widal test (2)Pneumonia (c)Albendazole (3)Filariasis

(d)HAART (4)Typhoid

(5) Ascariasis



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10. Complete the following chart and rewrite:

Sr. No.	Agencies	Type of Pollination
· 1.	Water	
2.		Entomophily
3.	Bat	
4.		Ornithophily

OR Expain outbreeding devices in angiopermic plants .



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Section C

1. What is Biofortification? Explain selective breeding with suitable example.



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2. In the light of Griffith's experiment, explain the action of two strains of Diplococcus pneumoniase and give his conclusion.



- 3. Give scientific reasons:
- (a) The pyramid of energy is always upright.
- (b) In an ecosystem the energy flow is always unidirectional .
- (c) Ozone present in the startosphere is called as " good ozone " .
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4. Define 'reproduction isolation ' and explain two types of reproductive isolation .



5. Connecting link between glycolysis and TCA cycle is



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6. Describe the structure of a human kidney with the help of a labelled diagram.



7. Describe the reflex action with the help of labelled diagram.



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8. Define pollution . " Industries are pouring poison in water" - Expalin.



9. With the help of a suitable diagram, describe ultra structure of the cell organelle, which is essential for photosynthesis.

OR

During photosynthesis O_2 is evolved from water molecule and not from CO_2 ". Give the experimental proof given by Robert Hill.



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10. Describe the conducting system of human heart.



11. Lymphatic vessels are milky in appearance.



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12. Monocytes are called scavengers.



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13. The wall of left ventricle is thicker than right ventricle.



14. Valves are present in the veins.



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15. Pulmonary veins carry oxygenated blood.



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16. Which phenomenia gives 2: 1 ratio instead

of 3 : 1 ratio ? Describe with graphical

representation.



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17. A pea plant homozygous for yellow round seed is crossed with its recessive parents.

Calculate the phenotypic and genotypic ratio with the help of checker board.



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18. After puberty human female shows cyclic changes in her reproductive system . Explain structural and hormonal changes in the uterus .



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19. Scrotal sac serves as thermo regulator.



20. Corpus luteum gets converted into corpus albicans in absence of fertilization.



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21. Missing of menses is the first indication of pregnancy.



22. Give reasons: Surgical sterilization is a permanent method of birth control.



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23. Human egg is microlecithal.

