



BIOLOGY

BOOKS - GURUKUL BOOKS & PACKAGING BIOLOGY (HINGLISH)

MARCH 2014

Section I Botany

1. The biological scissors is

A. restriction endonuclease

B. gyrase

C. DNA ligase

D. helicase

Answer: A



View Text Solution

2. Dead and dried cell mass of microbes having nutritive value is also known as

A. BGA (blue - green algae)

B. SCP (single cell protein)

C. STP (sewage treatment plant)

D. VAM (vesicular arbuscular mycorrhizae)

Answer: B



Watch Video Solution

3. From the visible spectrum of light, which component is reflected by the green leaves ?

A. Blue

B. Red

C. Green

D. Orange

Answer: C



Watch Video Solution

4. For formation of 50 seeds, how many minimum meiotic divisions are necessary?

A. 25

B. 50

C. 75

D. 63

Answer: A



Watch Video Solution

5. In bisexual flowers, maturation of gynoecium before androecium is known as

.....

A. protandry

B. protogyny

C. gynandry

D. dicliny

Answer: B



View Text Solution

6. The permanent removal of forests and woodlands is called.....

A. reforestation

B. afforestation

C. deforestation

D. agroforestry

Answer: C



View Text Solution

7. Abundance of phosphate, causing algal overgrowth, resulting in depletion of oxygen

and killing other aquatic life is known as

.....

A. ecological succession

B. eutrophication

C. guano deposits

D. greenhouse effect

Answer: B



Watch Video Solution

8. What are jumping genes ?



Watch Video Solution

9. Give the importance of heterocyst in cyanobacteria.



Watch Video Solution

10. From which microbial source can pectinase be obtained?



[Watch Video Solution](#)

11. Which is the ultimate pathway for fixing carbon dioxide (CO_2) into glucose?



[Watch Video Solution](#)

12. Name the process of respiration which does not involve intake of oxygen (O_2) and release of carbon dioxide (CO_2).



[Watch Video Solution](#)

13. BIOMAGNIFICATION



[Watch Video Solution](#)

14. Sketch and label 'clover leaf model' of T-RNA .



[Watch Video Solution](#)

15. There is a hole in the ozone layer. What do you understand by this?



Watch Video Solution

16. Name any two edible varieties of mushrooms. Give nutritional values of these mushrooms.



Watch Video Solution

17. With the help of diagrams describe emasculation and bagging.



[Watch Video Solution](#)

18. What is a biopatent? Give any two examples.

OR

What is biopatent? Explain it with a suitable example.



[Watch Video Solution](#)

19. Enlist the application of tissue culture.



Watch Video Solution

20. What is 'photorespiration'? Explain it with diagrammatic representation.



View Text Solution

21. Describe the experiment of Hershey and Chase to prove that DNA is the genetic material.



Watch Video Solution

22. What is 'double fertilisation'? Describe it with the help of a neat and well labelled diagram. Give its importance.



Watch Video Solution

23. LAW OF INDEPENDENT ASSORTMENT



Watch Video Solution

Section II Zoology

1. The most common types of fossils are

A. moulds

B. casts

C. actual remains

D. models

Answer: C



Watch Video Solution

2. Which of the following traits is never observed in human females ?

A. Hypertrichosis

B. Haemophillia

C. Colour blindness

D. Myopia

Answer: A



Watch Video Solution

3. Safety of polio vaccine is tested on transgenic

A. pig

B. rabbit

C. fish

D. mice

Answer: D



Watch Video Solution

4. Mucous membrane trapping the microbes acts as a

A. physiological barrier

B. physical barrier

C. phagocytic barrier

D. inflammatory barrier

Answer: B



Watch Video Solution

5. Conversion of ammonia into uric acid occurs through

A. ornithine cycle

B. guanine cycle

C. Ionosinic pathway

D. Krebs's cycle

Answer: A



View Text Solution

6. Spinal cord and sympathetic ganglion of autonomous nervous system are connected by

.....

A. ramus ventrals

B. ramus communicans

C. ramus dorsalis

D. connective

Answer: B



Watch Video Solution

7. Pregnancy in second trimester is maintained by

A. LH (lutenizing hormone)

B. progesterone

C. estrogen

D. HCG (human chorionic gonadotropin)

Answer: B



Watch Video Solution

8. Gene flow.



Watch Video Solution

9. Why do sex linked traits appear more in males than in females ?



[Watch Video Solution](#)

10. Restriction digestion.



[Watch Video Solution](#)

11. What is the use of tissue plasminogen activator?



[Watch Video Solution](#)

12. Name the type of animal breeding carried out to produce a mule.



[Watch Video Solution](#)

13. Why is zona pellucida retained around the egg till it reaches uterus?



[Watch Video Solution](#)

14. Draw a neat and well labelled diagram of human excretory system.



Watch Video Solution

15. Write a note on desert adaptations.



Watch Video Solution

16. Give the economic importance of fisheries



Watch Video Solution

17. Distinguish between X and Y chromosomes.

(Mention any 'two' points.)



Watch Video Solution

18. Give applications of a vaccine.



View Text Solution

19. With the help of a chart, explain the method of sex determination in honeybees.



View Text Solution

20. Describe the structure of an antibody.



Watch Video Solution

21. Distinguish between the following :

(Give at least one point of distinction for each

pair.)

(a) Natality and Mortality.



[Watch Video Solution](#)

22. Distinguish between the following :

(Give at least one point of distinction for each pair.)

(b) Competition and Mutualizm.



[Watch Video Solution](#)

23. Distinguish between the following :

(Give at least one point of distinction for each pair.) (c) Agricultural water pollution and Shipping water pollution.



View Text Solution

24. Draw a labelled figure of the V.S. of human eye.



Watch Video Solution

25. Draw a neat and well labelled diagram showing T.S. Of ovary and describe the menstrual cycle in human female.



View Text Solution

26. Describe the structure of human heart.



Watch Video Solution