



BIOLOGY

BOOKS - SARAS PUBLICATION

Govt Solved Paper 2020 (2)



1. Which one of the following statements is not true ?

A. Sporopolenin is contributed by both

pollen cytoplasm and tapetum

B. It helps the pollen to withstand againt

strong acid

C. Sproropollenin derived from phycobilins

D. It helps pollen during long period

preservation in fossil deposits

Answer:

2. If you do dihybird in Prism sativum on the traits of pod shape an plant height. Will you get 9:3:3:1 ratio in F2?

A. Yes, because they are independently

assorting genes

B. No, they are linked genes

C. Yes, because they are situated on

different chromosomes

D. No, we cannot do experiments on these

two traits

Answer:



3. Bt brinjal is produced by using A and is having resistance againts B?

A. A-E.coli B-Virus

B. A-Virus B-Bacteria

C. A-Agrobacterium B-Bacillus

D. A-Agrobacterium B-Lepidopteron

Answer:



4. Which one of the following statements is true regarding IPR?

A. The discoverer has the full rights on his/her property

B. IPR-includes only the process of the

product not trade secrets

C. IPR is not protected by laws framed by

the country

D. The disoverer can use his discovery for

this own company but cannot sell it to

others

Answer:

5. Which one of the following is a biopesticide?

A. Azolla

B. Rhizobium

C. Beauveria

D. Hevea

Answer:

6. Which one of the following is an incorrect

pair?

A. Turmeric-Erode

- B. Cardamom-Queen of species
- C. Rubber-Kerala
- D. Banana-National fruit of India

Answer:

7. Which one of the following is highly effective against jaundice?

A. Milavembu

B. Opium poppy

C. Marijuana

D. Phyllanthus

Answer:

8. Molecular farming plants are different from

natural medicinal plants. How?



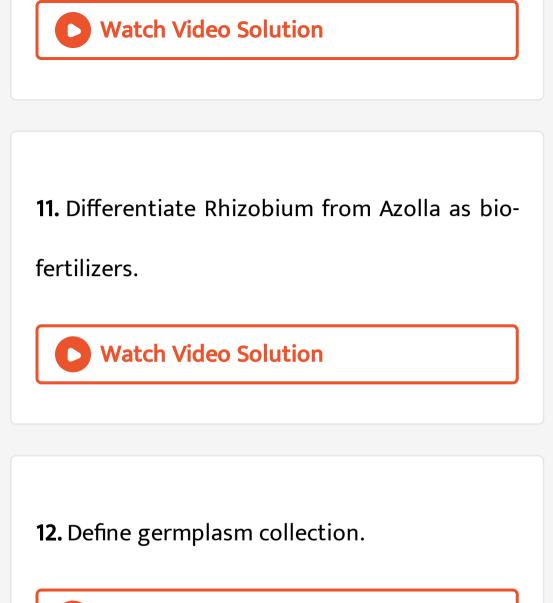
9. Draw the diagram showing altitudinal

zonation of vegetation.

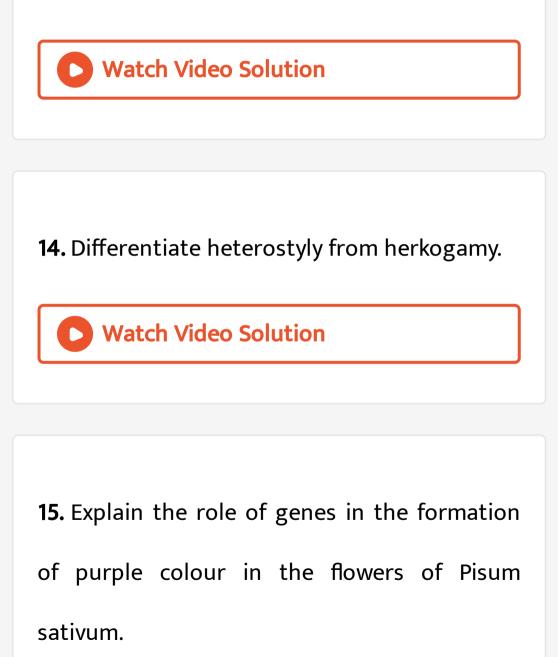
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10. Write the steps involved in the mechanism

of decomposition.









16. If the upstream process is not done for a

fermentation process (bioreactor), what would

happen to the product?

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17. List out the ethical issues of genomic research.

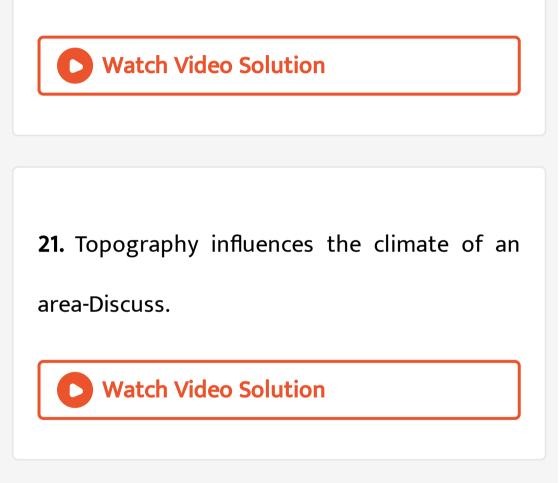
18. If crow is absent in an ecosystem, What would happen?

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19. A reproduction wthout the involvement of male and female gametes is called apomixis. Give an outline of this method.

20. Explain how translocation chromosomal

aberration is different from crossing over?



22. Clouds, dusts and humid nights are warmer than clear dust free dry nights.

Discuss the global warming.

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23. Plastogamy means?

A. Mononucleated parent divides into two

Mononucleated individuals

B. Multinucleated parent divides into two

Mononucleated individuals

C. Multinucleated parent divides into many

Mononucleated individuals

D. Multinucleated parent divides into many

Mononucleated daughter individuals

Answer:

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24. Before coming out of nucleus , in RNA is

added (A) as capping (B) as tailing

A. A-ATP, B-ADP

B. A-Methyl guanine triphosphate,

B-/adenylate residue

C. A-diadenylate guanosine diphosphate, B-

guanosine residue

D. A-ethyl methane triphosphate, B-methyl

guanosine residue

Answer:

25. Among the non-infections disease, which is

the major cause for death?

A. Heart attack

B. Stroke

C. Arthritis

D. Cancer

Answer:

26.	Which	of	the	follo	wing	is	not	true
regarding antibiotics?								
A. Penicillin is a fungicide antibiotics								
	B. Tetrac	yclin	e is	s a	broa	ad	spec	trum
	antibi	toics						
C. Streptomycin is broad spectrum								
antibiotics								
D. Chlorotertracyline is obtained from								
Streptomyces aureofacines								

Answer:



27. Which technique can be used to amplify

the smallest DNA?

A. PCR technique

B. NMR technique

C. Tissue cloning technique

D. Plasmaphoresis technique

Answer:





28. Find out the wrong pair.

A. Indian desert-Gujarat

B. Trans Himalayan-Lahal spiti

C. Western ghats-Andrapradesh

D. North-East India-Indo-Malayan bio-

geographical region

Answer:

29. Assertion (A) : Forest act as oxygen sinks and heart of the planet Reason (R): Forest animals consume lot of

oxygen for their respiration .

A. (A) is wrong, (R) is correct

B. (A) is correct, (R) is wrong

C. (A) and (R) is correct

D. (A) and (R) is wrong

Answer:

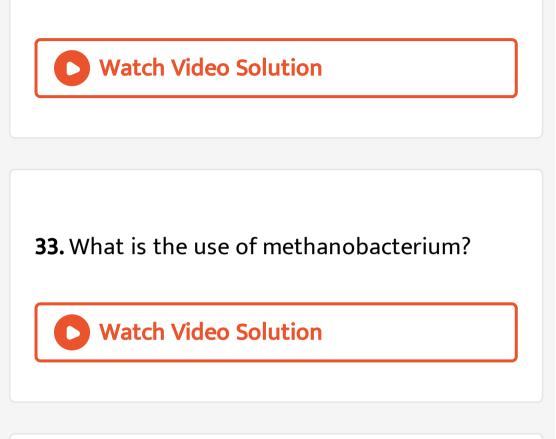


30. Zygote is not formed during the conjugation of Paramecia, but we cell it as sexual reproduction why?



31. Differentiate ZIFT from GIFT

32. What is chemical evolution?



34. Extinction of a keystone species led to loss

of biodiversity. Justify.

35. Meiosis cell division does not take place during the gametes formation of drone bee. Give reason.

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36. What is meant by ribozyme?

37. What is the evolutionary significance of

Archaeopteryx?

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38. Briefly explain the differnet measures to

reduce noise pollution.



39. A diabetic patient wants to have a single time treatment and permanent cure for diabetes. It is possible? If so explain.



40. Explain the role of hormones in the maintenace of human male fertility.



41. DNA is the genetic material, but it evolved

from RNA. Justify.

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42. Suggest methods of maintenance of personal and public hygiene.

43. Analyse the interactions of two species

population.