



### **BIOLOGY**

## **BOOKS - SARAS PUBLICATION**

# GOVT. MODEL SOLVED QUESTION PAPER 2019-20 (6)



1. Eyes of potato are referred to

A. adventitious roots

B. axillary buds

C. Terminal bus

D. intercalary buds

#### **Answer:**

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2. E.Coli is the mostly used organism for gene

cloning, because

#### A. IT is easy to handle

B. It is growing easily under optimal

condition

C. It is the safe organism

D. All the above

Answer:

**3.** This is the pattern of question. Assertion (A): The explants are sterilized by mercuric chloride. Reason(R): Sterilization prevents the growth of other micro organisons in the culture medium.

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

C. Both (A) and (A) are correct, but (R) is

not the explanation of (A)

D. Both (a) AND (r) are correct, (R) is the

explanation of (A)

#### **Answer:**

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A. Now a days, scientists suggest carbon sequestration is a solution for global warming.
The reason is.

A. The balance between photosynthesis and respiration is disturbed B. The absoption process of plants from the soil is disturbed C. Due to high intensity of light respieration process is disturbed D. Carbon sequestration is not the solution

fpr global warming.

#### Answer:



**5.** The objectives of clean development mechanism are

A. Prevention of clean development

machanism are /is

B. Reduction of emission of green house

gases.

C. Both a and b

D. Reduction of electricity of generation

and its need.

#### Answer:



6. Which is of the following is not free living  $N_2$  fixing organism?

A. Anabaena azollae

B. Azotobacter

C. Clostridium

D. Nostoc

#### Answer:



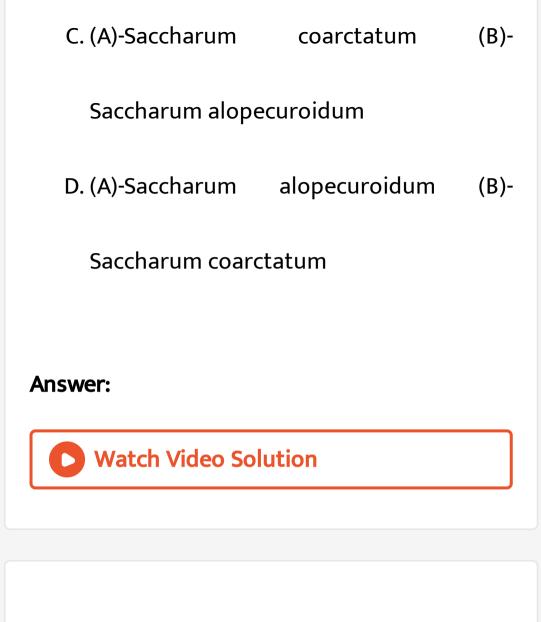
**7.** (A) Was orginallyn grown in North India. (B) was orginally grown in South India.

A. (A)-Saccharum officinarum (B)-

Saccharum bareri

B. (A)-Saccharum bareri (B)- Saccharum

officinarum



8. The very common rubber yielding plant of tamilnadu is

- A. Manihot esculenta
- B. Ficus elsstica
- C. Hevea benthamiama
- D. Hevea brasiliensis

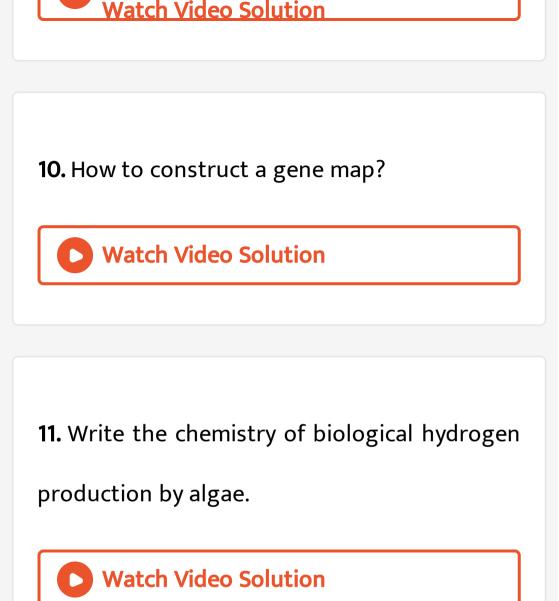
#### Answer:



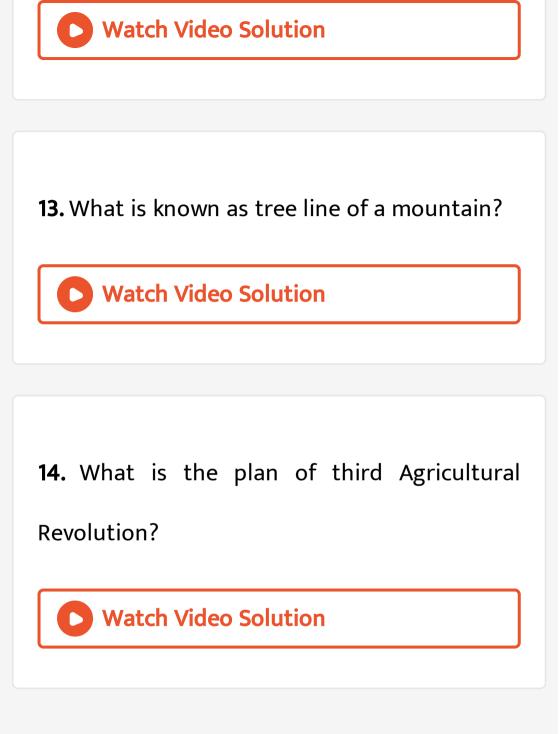
9. write any two difference between male

gametophyte and female gametophyte.





**12.** How to remove cell wall of plant cell?



15. Write the three fusions of Angiospermous

plant fertilization.

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16. Codominance is an example of intrageinc

gene interaction How?

17. Write the differences between coupling and

repulsion.

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18. What is known as sustainable development

of agriculture?

**19.** Organic farming is considered as the movement towards the philosophy of Back to Nature. Explain.



**20.** Summarise the whole life cycle of an Angiosperm plant in the form of sche-matic diagram.



**21.** How to introduce herbicide tolerence capacity into a plant? Write its advantages.



22. Write about the influences of temperatue

in an ecosystem.

23. Pyramid of numbers can be upright and

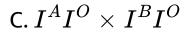
inverted. Explain it wth an example each.

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**24.** Four children pf a couple have blood groups A, B AB and O. What could bethe Genotype of the parents?

A.  $I^A I^A imes I^B I^B$ 

 $\mathsf{B}.\,I^AI^O\times I^BI^A$ 



D.  $I^O I^O imes I^A I^B$ 

#### **Answer:**

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**25.** Which is the correct order of human evolution?

A. Hominid  $\rightarrow$  Homo habilis  $\rightarrow$  Homo

erectus  $\rightarrow$  Homo spaiens

B. Homo habilis  $\rightarrow$  Homo erects  $\rightarrow$ Hominds  $\rightarrow$  Homo spaiens C. Homo erectus  $\rightarrow$  Homo habilis  $\rightarrow$ Hominids  $\rightarrow$  Homo spaiens D. Homo habilish  $\rightarrow$  Hominids  $\rightarrow$  Homo exctus  $\rightarrow$  Homo spaiens

#### **Answer:**

**26.** Which one of the following is not a correct pair?

A. African sleeping sickness- Tsetse fly

B. Amobiasis - House fly

C. Kala azar - Sand fly

D. Malaria- Aedes mosquits

#### Answer:

**27.** To control the growth of strangular vine in citrus crop, mycoherbicide is obtained from

A. Bacillus thuringiensis

B. Phytophathora palmivora

C. Pyicularia oriza

D. Agaricus compestris

#### Answer:

**28.** Saccharomyces cerevisiae is more suibtal for the production of recombinant interferons that E.coli.The reason is.

A. E.Coil does not have machinery for glycosylation of starch

B. Sachharomyces cerevisiac has machinery

for he syntheses of r DNA

C. E.Coil does not have machinery for

glycosylation of proteins

D. E.Coil does not have machinery for

glycosylation of fats.

#### **Answer:**

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# **29.** Which is the stenotherms from the following?

A. Dog

#### B. Tiger

C. Human

D. Lizard

#### Answer:



**30.** Assertion(A): India is one of the 17 Mega bio diversity countries of the world. Reason(R):India's geographical location is most suitable for the organisms. A. (A) correct, (R) wrong

B. (A) wrong, (R) Correct

C. (A) and (R) correct and (R) explain (A)

D. (A) and (R) correct and (R) does not

explain (A)

**Answer:** 

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31. Air quality Index number 200 denotes

A. good, no pollution

B. Moderate,

C. low level pollution

D. Bad, unhealthy polluition

Answer: Hazardous, pollution

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32. Y-linked genes are non homologous why?

**33.** State one gene one enzyme hypothesis.



34. Pet plastics are not more environmental

hazardoxs substances. Why?

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**35.** What is photokinesis ?



36. Draw the diagram showing thermal zones

in cold water bodies.

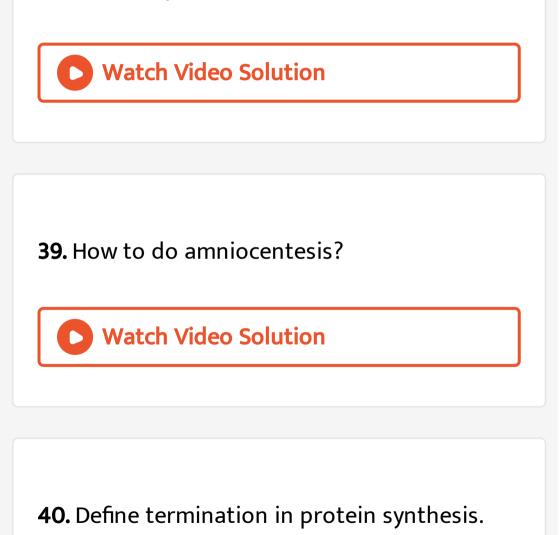


#### **37.** How can we control eutrophication?



38. Write the differences between multiple

fission and sporulation in Amoeba.



**41.** Give schematic representation for the production of human growth hormone.



# **42.** Write about the three indices of species diversity.



**43.** briefly explain the mechanism of fertilization and implantation in human beings.



**44.** Fingerprinting technique is inevitable in the detection of criminal activites. Explain how?



45. Explain the modern synthetic theory of

natural selection.



**46.** Discuss the various types of innate immunity and their functioning mecha-nisms.