



# **BIOLOGY**

# **BOOKS - SARAS PUBLICATION**

# GOVT. MODEL SOLVED QUESTION PAPER 2019-20 (1)



**1.** Which one of the following is not an advantage of micro propagation?

A. Plants are produced gentically identical

- B. Endangered plants can be propagated
- C. Desease undersirable genetical changes

occur

D. Disease free plants can be produced

Answer:

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2. A simplified model for the RNAi pathway is

A. The trigger RNA is processed into a short interfering RNA by RNA by Rnase II enzymes.

B. sirRNAs are loaded into the effector complex RNA-induced silencing complex

C. Both a and b

D. The gene editing tools such as CRISPR

can be loaded

#### Answer:

**3.** Which one of the following is the correct steps in the direct embryogenesis?





#### Answer:



**4.** Which one of the following is an alien invasive species?

A. Mangifera indica

B. Eichhronia crassipes

C. Solanum nigrum

D. Zizipus jujupa

#### Answer:

5. Assertion (A): a Variety formed by pure line selection methods shows more homozygosity with respect to all genes.
Reason ®: Pure line plants are produced by asexual method or vegetatice propagation

method.

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

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

C. (A) is correct, (R) does not explain

D. (A) is correct, (R) is explain





# 6. Which is the temperature region fruit?

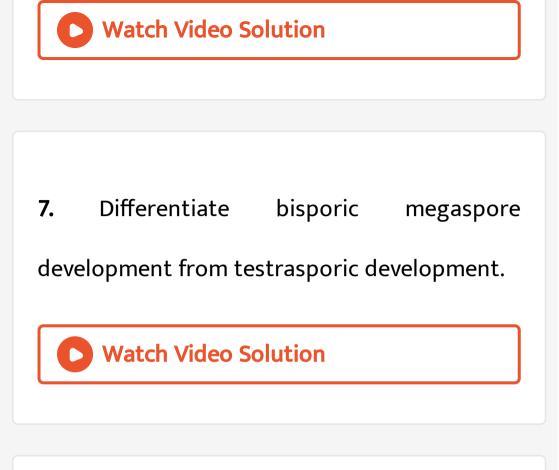
A. Mango

B. Jack

C. Banana

D. Plum

**Answer:** 



**8.** Inheritance of chloroplast and mitochondria characters are non-mendelian inheritance

Pattern. Why?

9. Draw the flowchart of triticale production.



10. Agrobacterium tumefaciens is a good

vector in gene tranfer. State the reason for it.

11. Why do we add dimethyl sulphoxide, glycerol or sucrose before cryopreservation?
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**12.** What is ecological hierarchy? Name the

levels of ecological hierarchy.



**13.** The different colours of flower Miabills jalapa is the result of blending of phenotype not genes themselves. Explain it.



# 14. Western blot test is more perfect than Elisa

How?

**15.** What is meant by biological indicators ?

Give example .

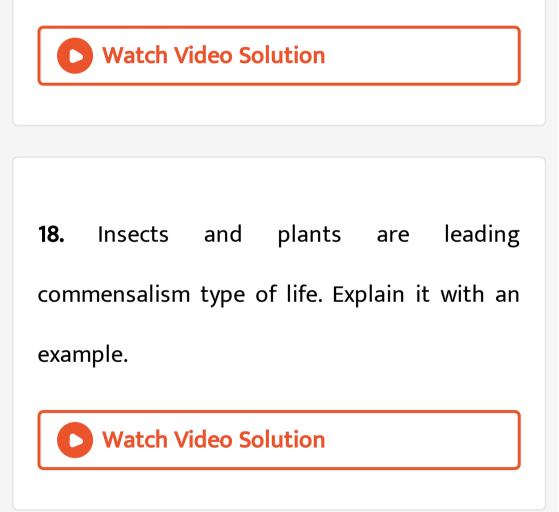
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16. Now a days azolla is an inevitable organism

in paddy field. Why?

17. TN Govt suggest Nilavembu as a medicine

for Dengue. Write its medicinal importance.



19. Explain coupling and repulsion aspects of

linkage with the help of examples.

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20. Write the classification of productivity of

an ecosystem.

**21.** Which one of the following is true regardign copper releasing IUDs?

A. They suppress the ovulation

B. They can remain in the uterus fro more

than 20 years

C. They suppress sperm motility

D. They suppress fertilization and

conduction of zygote







**22.** The haemophilia man marries a homozygons normal woman. What would be the possible condition to their children?

A. Sons would be normal but daughters

would be sufferer

B. Sons would be sufferee but daughters

would be normal

C. Both sons and daughters would be

narmal

D. Both sons and daughters would be

normal but daughters would be carrier

**Answer:** 

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23. UAA, UAG and UGA codons are designated

# A. Stop codons

- B. Non-sense sodons
- C. Both (a) and (b)
- D. initiator condons

#### Answer:



24. Which of the following is correct pair?

A. Cycosprorin A-Immunosuppressant

- B. Whisky -Fermented grape
- C. Statins- Lower blood glucose level
- D. Super bug Giant insect

### Answer:

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**25.** Assertion(A): Normal secretion of insulin prevents diabetes mellitus. Reason (R): Insuline facilitates the cellular

uptake of glucose

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

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

C. Both (a) and (b) is correct, but (R) does

not explain (A)

D. Both (a) and (b) is correct, but (R)

explain (A)

Answer:

26. Kaziranga National Park is protected area

for

A. Lion

B. Elephant

C. Tiger

D. Horened Rhinoceros

## Answer:

27. Which one of the following is not a ozone

depleting substance?

A. Methyle chloroform

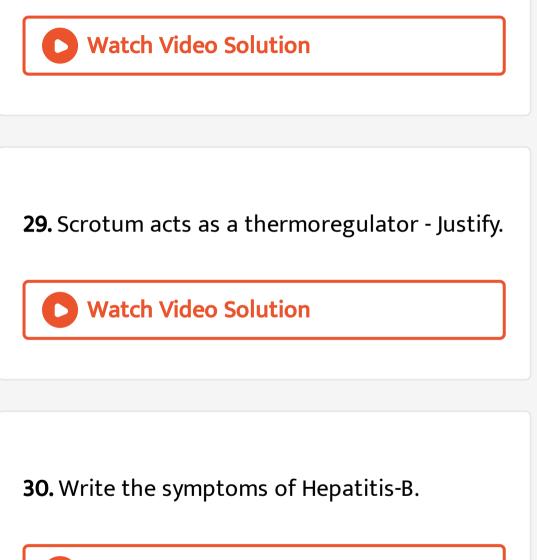
B. Carbon tetrachloride

C. Hydroflurocarbons

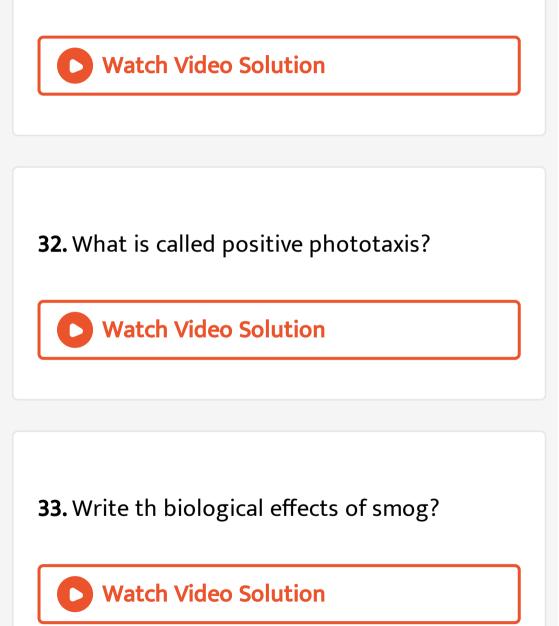
D. Nitrous oxide

#### Answer:

28. Differentiate merozoites from sporozoites.



**31.** Write the key features of organic farming.



34. What is spermatogenesis? Briefly describe

the process of spermatogenesis.

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**35.** A thalassemia baby is born to a normal non thalassemic parents. Explain the possible causes for the occurrence of thalassemia.

36. Stem cell therapy will increase the logivity

of human life. Explain it logically.





from

commenslism.



38. Intensive agriculture results in reduction of

genetic diversity. How?

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**39.** Explain the tranformation experiment pf Avery et.al.,



40. Satellite DNA forms the basis of DNA finger

printing. Explain?

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41. Write the assumptions included in Hardy

Weinberg Principle?



42. Explain the role of immunity in prevention

of cancer.