



# BIOLOGY

**BOOKS - SARAS PUBLICATION**

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

## Exercise

1. Eyes of potato are referred to

A. adventitious roots

B. axillary buds

C. Terminal bud

D. intercalary buds

**Answer:**



**Watch Video Solution**

**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:**



**Watch Video Solution**

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 organisms 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:**



**Watch Video Solution**

4. 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 absorption process of plants from the soil is disturbed
- C. Due to high intensity of light respiration process is disturbed
- D. Carbon sequestration is not the solution for global warming.

**Answer:**



**Watch Video Solution**

5. The objectives of clean development mechanism are

A. Prevention of clean development mechanism 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:**



**Watch Video Solution**

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

A. Anabaena azollae

B. Azotobacter

C. Clostridium

D. Nostoc



**Answer:**



**Watch Video Solution**

7. (A) Was originally grown in North India. (B) was originally grown in South India.

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

Saccharum bareri

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

officinarum

C. (A)-Saccharum coarctatum (B)-

Saccharum alopecuroidum

D. (A)-Saccharum alopecuroidum (B)-

Saccharum coarctatum

**Answer:**



**Watch Video Solution**

**8.** The very common rubber yielding plant of tamilnadu is

A. *Manihot esculenta*

B. *Ficus elsttica*

C. *Hevea benthamiama*

D. *Hevea brasiliensis*

**Answer:**



**Watch Video Solution**

9. write any two difference between male gametophyte and female gametophyte.



 [Watch Video Solution](#)

**10.** How to construct a gene map?

 [Watch Video Solution](#)

**11.** Write the chemistry of biological hydrogen production by algae.

 [Watch Video Solution](#)

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



[Watch Video Solution](#)

**13.** What is known as tree line of a mountain?



[Watch Video Solution](#)

**14.** What is the plan of third Agricultural Revolution?



[Watch Video Solution](#)

**15.** Write the three fusions of Angiospermous plant fertilization.



**Watch Video Solution**

**16.** Codominance is an example of intragenic gene interaction. How?



**Watch Video Solution**

**17.** Write the differences between coupling and repulsion.



**Watch Video Solution**

**18.** What is known as sustainable development of agriculture?



**Watch Video Solution**

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



**Watch Video Solution**

**20.** Summarise the whole life cycle of an Angiosperm plant in the form of schematic diagram.



**Watch Video Solution**



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



**Watch Video Solution**

**22.** Write about the influences of temperature in an ecosystem.



**Watch Video Solution**

23. Pyramid of numbers can be upright and inverted. Explain it with an example each.



Watch Video Solution

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

A.  $I^A I^A \times I^B I^B$

B.  $I^A I^O \times I^B I^A$

$$C. I^A I^O \times I^B I^O$$

$$D. I^O I^O \times I^A I^B$$

**Answer:**



**Watch Video Solution**

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

A. Hominid → Homo habilis → Homo erectus → Homo sapiens

B. Homo habilis → Homo erectus →

Hominids → Homo sapiens

C. Homo erectus → Homo habilis →

Hominids → Homo sapiens

D. Homo habilis → Hominids → Homo

erectus → Homo sapiens

**Answer:**



**Watch Video Solution**

**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:**



**Watch Video Solution**

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

- A. *Bacillus thuringiensis*
- B. *Phytophthora palmivora*
- C. *Pyricularia oriza*
- D. *Agaricus compestris*

**Answer:**



**Watch Video Solution**

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

A. *E. coli* does not have machinery for glycosylation of starch

B. *Saccharomyces cerevisiae* has machinery for the synthesis of r DNA

C. *E. coli* does not have machinery for glycosylation of proteins

D. E.Coil does not have machinery for glycosylation of fats.

**Answer:**



**Watch Video Solution**

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

A. Dog

B. Tiger



C. Human

D. Lizard

**Answer:**



**Watch Video Solution**

**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:**



**Watch Video Solution**

**31. Air quality Index number 200 denotes**

A. good, no pollution

B. Moderate,

C. low level pollution

D. Bad, unhealthy pollution

**Answer: Hazardous, pollution**



**Watch Video Solution**

**32. Y-linked genes are non homologous why?**



**Watch Video Solution**

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



**Watch Video Solution**

**34.** Pet plastics are not more environmental hazardoxs substances. Why?



**Watch Video Solution**

**35.** What is photokinesis ?



 [Watch Video Solution](#)

**36.** Draw the diagram showing thermal zones in cold water bodies.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**38.** Write the differences between multiple fission and sporulation in Amoeba.



**Watch Video Solution**

**39.** How to do amniocentesis?



**Watch Video Solution**

**40.** Define termination in protein synthesis.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**



**45.** Explain the modern synthetic theory of natural selection.



**Watch Video Solution**

**46.** Discuss the various types of innate immunity and their functioning mechanisms.



**Watch Video Solution**