



# BIOLOGY

**BOOKS - SARAS PUBLICATION**

**GOVT-MODEL SOLVED QUESTION  
PAPER-2019-2020 (6)**

## Exercise

1. Eyes of potato are referred to

A. adventitious roots

B. axillary buds

C. terminal buds

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:**



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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 (R) are correct, but (R) is not the explanation to (A)

D. Both (A) and (R) are correct, (R) is the explanation of (A)

**Answer:**



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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:**



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5. The objectives of clean development mechanism are

A. To prevent dangerous climate change

B. Reduction of emission of green house gases

C. Both (a) and (b)

D. Reduction of electricity of generation and its need

**Answer:**



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

A. Anabaena azollae

B. Azotobacter

C. Clostridium

D. Nostoc



**Answer:**



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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 alopecuroidium

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

Saccharum coarctatum

**Answer:**



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

A. *Manihot esculenta*

B. *Ficus elastica*

C. *Hevea benthamiana*

D. *Hevea brasiliensis*

**Answer:**



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



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

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

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



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



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



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



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**16.** What is intragenic gene interaction?



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



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



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



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



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



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



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



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**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:**



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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  
excuts → Homo sapiens

**Answer:**



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**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 mosquitos

**Answer:**



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

A. *Bacillus thuringiensis*

B. *Phytophthora plamivora*

C. *Pyricularia orizae*

D. *Agaricus campestris*

**Answer:**



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**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. Sachharomyces cerevisiac has machinery for the synthesis of rDNA

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

D. E.coli 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:**



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**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, not pollution
- B. Moderate, low level pollution
- C. Bad, unhealthy pollution
- D. Hazardous, pollution

**Answer:**



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



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



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



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**35.** What is photokinesis ?



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



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



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



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**39.** How to do amniocentesis?



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



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



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



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



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



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



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



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