



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### GOVT. MODEL SOLVED QUESTION PAPER 2019-20 (5)

#### Exercise

1. Which one of the following is a dioecious plant?

A. Coconut

B. Bitter gourd

C. Pea plant

D. Date plan

**Answer:**



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2. Which one of the following is not a correct pair regarding genes of pea plant.

A. Seed shape- Chromosome number-6

B. Pod colour- Chromosome number-5

C. Flower position- Chromosome number-4

D. Seed colour- Chromosome number-1

**Answer:**



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**3.** What is the phenotype of wheat kernal colour for the genotype:  $R_1 R_1 r_2 r_2$ ?

A. Dark red

B. Medium dark red

C. Medium red

D. Light red

**Answer:**



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**4.** If haploid number in a cell is 23. The double monosomic and pentasomy number will be

A. 44 and 49

B. 17 and 34

C. 47 and 46

D. 45 and 48

**Answer:**



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**5. Stenophagic means**

A. The organism can survive by taking wide range of food

B. The organism can survive by taking narrow range of food

C. The organism can live in water with wide range of salinity

D. The organism can live in water with narrow range of salinity.

**Answer:**



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6. Which is the right representation of detritus food chain?

A. Grasses → Earth worm → Black → Hawk

B. Grass → Mouse → snake → eagle

C. Fallen leaves → Earthworm → Black bird → Hawk

D. Plants → Rabbits → Snake → Eagle

**Answer:**



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7. Folk system of medicine is popular in

A. Nigeria

B. USA

C. India

D. UK

**Answer:**





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8. write the practical application of activation of nucellar tissue.



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9. What is the difference between mis-sense mutation and non-sense mutation?



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10. Write the principle of electrophoresis.



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11. Write any two example for ecological equivalents.



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12. Pyramid of energy is always upright. Give reasons.





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**13.** Write any two uses of THC.



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**14.** Write about pleiotrophy gene of *Pisum sativum*.



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**15.** What are comutagens? Give example.



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**16.** Write the anatomical adaptations of vivipary germination.



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**17.** List the benefits of Mangroves ecosystem services.



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**18.** Which is the best conventional method to introduce disease resistance capacity into a plant? Explain.



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**19.** Describe the structure of dicot seed.



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**20. Compare PHB with PLA**



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**21. Give the protocol for Micropropagation in Banana.**



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**22. Discuss the natural and anthropogenic sources of Green House Gases Emission.**





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23. The primary and secondary hosts of Tape worm are respectively.

A. mosquito and man

B. Man and housefly

C. Cattle and man

D. Man and pig

**Answer:**



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24. Which one of the following is not a cause for infertility?

A. Varicocele

B. High body fat

C. Ingestion of Cadmium

D. Tight clothing in man

**Answer:**



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**25. Find out the incorrect pair**

A. Neisseria gonorrhoeae - Affects lymph

B. Hepatitis B virus - Liver cirrhosis

C. HIV - Enlarged lymph

D. Candida albicans - Inflammation of heart

**Answer:**



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26. Which one of the following is a true statement regarding sex chromosome of Mammals?

A. Both males and females have only one functional X chromosome per cell

B. Males have one functional X chromosome whereas females have two functional X-chromosome

C. Males have two functional X chromosome whereas females have

only one functional X- chromosome

D. Females have two functional X chromosome whereas males have no functional X-Chromosome

**Answer:**



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**27. Why dendritic cells are called so?**

A. Because they look like teech of animals

B. Because they cause dent in the host  
body

C. Becausek they look like dendrites of  
nerve cells

D. Because they function like nerve cells

**Answer:**



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28. Which one of the following contains maximum amount of alcohol?

A. Beer

B. Wine

C. Wine coolers

D. Gin

**Answer:**



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29. Which one of the following is not true regarding stem cells?

- A. They are totipotent cells
- B. They are pluripotent cells
- C. They are undifferentiated cells
- D. They are differentiated cells

**Answer:**



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30. Why tRNA is called an adapter molecule?



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31. Mention the types of malaria caused by the following species of plasmodium

- i. Plasmodium vivax
- ii. Plasmodium malariae
- iii. Plasmodium ovale
- iv. Plasmodium falciparum



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**32.** What is metastasis ?



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**33.** Write the role of viruses in biological control of pathogens.



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**34.** What is coextinction? Give an examples.







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**35.** Red list of Red Data book consists of eight categories of species. Mention them.



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**36.** Sexual reproduction is said to be superior to asexual reproduction .. Do you agree with this .



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**37.** Is phenylketonuria related to albinism?

Give reason for your answer.



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**38.** Gene flow can be a strong agent of evolution Explain how?



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**39.** List the application of PCR in forensic medicine .



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**40.** Write a brief note on the role of women in conservation of forest in India.



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**41.** Explain the anatomy of testis with the help of a diagram.



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**42.** Explain the properties of genetic material.



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**43.** Discuss the various responses of living organisms towards abiotic factors.



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