



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### GOVT. MODEL SOLVED QUESTION PAPER-2019-2020 (5)

#### Exercise

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

A. Coconut

B. Bitter gourd

C. Pea plant

D. Date plan

**Answer:**



**Watch Video Solution**

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:**



**Watch Video Solution**

3. What is the phenotype of wheat kernel 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:**



**Watch Video Solution**

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. 46 and 115

**Answer:**



**Watch Video Solution**

**5. Stenophagic means**

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

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

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

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

**Answer:**



**Watch Video Solution**

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

A. Grasses → Earth worm → Black bird  
→ Hawk

B. Grass → Mouse → Snake → Eagle

C. Fallen leaves → Earthworm → Black  
bird → Hawk

D. Plants → Rabbits → Snake → Eagle

**Answer:**



**Watch Video Solution**

7. Folk system of medicine is popular in

A. Nigeria

B. USA

C. India

D. UK

**Answer:**





**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

10. Write the principle of electrophoresis.



[Watch Video Solution](#)

11. Write any two example for ecological equivalents.



[Watch Video Solution](#)

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





[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



**Watch Video Solution**

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



**Watch Video Solution**

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**20. Compare PHB with PLA**



**Watch Video Solution**

**21. Derive the protocol for micropropagation of bananas.**



**Watch Video Solution**

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





[Watch Video Solution](#)

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:**



[Watch Video Solution](#)

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

A. Varicocele

B. High body fat

C. Ingestion of cadmium

D. Tighy clothing in man

**Answer:**



**Watch Video Solution**



**25.** Find out the incorrect pair

A. *Nisseria gonorrhoeae*-Affects urethra

B. Hepatitis B virus-Liver cirrhosis

C. HIV-Enlarged lymph

D. *Candida albicans*-inflammation of heart

**Answer:**



**Watch Video Solution**

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

A. Both males and females have only 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:**



**Watch Video Solution**

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

A. Because they look like teeth of animals

B. Because they cause dent in the host  
body

C. Because they look like dendrites of nerve  
cells

D. Because they function like nerve cells

**Answer:**



**Watch Video Solution**

**28.** 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:**



**Watch Video Solution**

29. Why tRNA is called an adapter molecule?



[Watch Video Solution](#)

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

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



[Watch Video Solution](#)

**31.** What is metastasis ?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**



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

Give reason for your answer.



**Watch Video Solution**

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



**Watch Video Solution**

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**41.** Write about the application and future challenges of HGP.



**Watch Video Solution**

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



**Watch Video Solution**

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





**Watch Video Solution**