



# **BIOLOGY**

# **BOOKS - SARAS PUBLICATION**

# GOVT. MODEL SLVED QUESTION PAPRE-2019-2020-4



**1.** In a male gametophyte, the chromosomal number of generative nucleus is (A) and tube

nucleus is (B).

A. (A)-(n) (B)-(2n)

B. (A)-(2n) (B)-(n)

C. (A)-(2n) (B)-(2n)

D. (A)-(n) (B)-(n)

#### **Answer:**



2. Which of the following is incorrect?

A. The alleles of a genotype are found in the some locus of a homologous chromosome B. In the S phase of meiotic interphase each chromosome replicates forming two copies of each allele, one on each chromatid C. The homologous chromosomes segregate in metaphase I, thereby spearating two different alleles

D. In anaphase II of meiosis, separation

sister chramatid of homologous

chromosome takes place

Answer:

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**3.** Which one of the following is a secondary

metabolite?

A. Ethanol

B. Acetic acid

C. Citric acid

D. Toxic pigments

#### **Answer:**

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### **4.** Which one of the following is a correct set?

A. Vincristine-Cinchona officinalis-Anti

carcinogen

B. Capsaicin-catharathus

Antimalarial

C. Digoxin-Digitalis purpuria-Cardiac tonic

D. Codeine-Capsicum annum-Analgesic

**Answer:** 

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**5.** Assertion (A): Hypolimnetic layer of water is always cold. Reason(R): The water holds the temperature of soil at the bottom of pond.

A. (A) correct, (R) wrong

B. Both (A) and (R) are correct, out (R) is

not the correct explanation of (A)

C. Both (A) and (R) are correct, (R) is not

the correct explanation of (A)

D. Both (A) and (R) are wrong

Answer:

**6.** Which plant pods explodes with a loud noise like cracker?

A. Boerhaavia

B. Cleome

C. Bauhinia vahlii

D. Ecoballium elaterium

### Answer:

7. Which one of the following food chain refers

inverted pyramid?

A. Grasses  $\rightarrow$  Rats  $\rightarrow$  Snake  $\rightarrow$  Hawk

B. Banyan tree  $\rightarrow$  Bird  $\rightarrow$  Beetles  $\rightarrow$ 

Fungi

C. Phytoplanktons  $\rightarrow$  BIOplanktons  $\rightarrow$ 

Fishes  $\rightarrow$  snakes

D. Plants  $\rightarrow$  Rabbits  $\rightarrow$  Fox  $\rightarrow$  Hawk

#### Answer:

# 8. Which one of the following is a live fence of

fodder?

A. Gliricidia sepium

B. Nerium

C. Aloe vera

D. Chrysanthemum



**9.** Which method of artificial vegetative reproduction is good in plants? Give reason for Your answer.



### **10.** Differentiate tetrasomy from tetraploidy.



 11. Define electroporation method of gene

 transfer.

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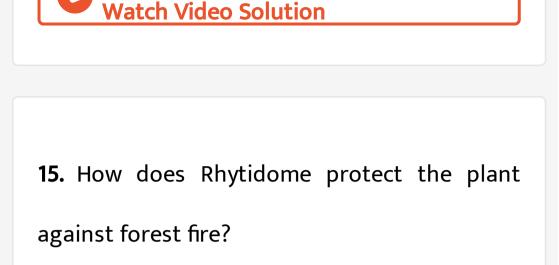
**12.** By using gene manipulation research we produce varieties of organsms. What is the need of biosafety in it?

**13.** In different food chains of different ecosystem the placement of man is not metioned you give placement in a suitable food chain and give reason for your answer.

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**14.** Grafting is a method of production of hybrid plants but not the method of reproduction. Do you agree this statement? Give logic reason for your answer.





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16. In animals, loss of energy occures due to

evoporation of heat. How?

17. Write the direct and indirect effects of

ozone depletion on man.



18. Explain the pattern of inheritance of a dominant gene suppressed by another one dominant gene.



19. Explain the role of Agrobacterium as a vector in gene transfer.Watch Video Solution

**20.** Compare mass selection with pure line selection with the help of a schematic diagram.

**21.** What are the King and Queen of spices?

Explain about them their uses.



22. In Hydra, the buds develop from

A. ectoderm layer only

B. ectoderm and endoderm layers

C. ectoderm, mesoderm and endoderm

layers

D. ectoder and measoderm layers

#### Answer:

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### 23. Which one of the following is an incorrect

statement regarding uterus?

**24.** Assertion(A): Tubectomy is the surgical sterilisation in women. Reason(R): It blocks the transport of the gametes and prevents conception.

A. (A) Correct, (R) Wrong

B. (A) Wrong, (R) Correct

C. (A) Correct, but (R) does not explain (A)

D. (A) Correct, (R) explain (A)





**25.** What is the sex of Drosophila, which contains 12 autosomes and 3 X chromosomes?

A. Male

B. Female

C. Gyandromorphs

D. Super



**26.** What type of immunity, when interferons are produced by WBCs in our body?

A. Interferons are not produced in our

body, it is a syntheitc drug

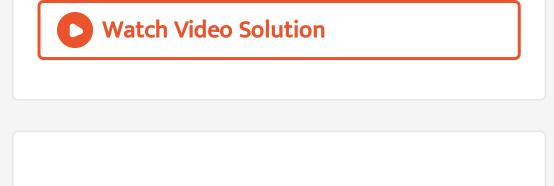
- B. It is a type of passive immunity
- C. It is a natural immunity
- D. It is a artifical acquired immunity



**27.** During sporulation Bacillus thuringiensis produces a crystal protein called (A) which is encode by (B).

- A. A-enterotoxin, B-Lac operon genes
- B. A-neurotoxin: B-Feb genes
- C. A-Alpha toxin, B-PCR genes
- D. A-Delta endotoxin,B-Cry genes





- **28.** Ecosphere means.
  - A. all the physical and biological environment of an ecosystem B. all the biological organism of the earth which interact with the physical environment C. The physio-chemical environment of the

earth

D. Smallest part of an ecosystem, in which

organisms interact with physical

environment

Answer:

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**29.** Rich biodiversity is seen near equator. The reason is.

metaloblism of living things

B. cyclone does not occur periodically

C. extreme temperature  $(40^{\circ}C)$  during the

summer is favourabel for plants

D. lengthy photoperiodism is useful for

photosynthesis

Answer:

**30.** Why do we call parthenogenesis as a special type of sexual reproduction in animals? **Watch Video Solution** 

**31.** Write the tertiary stage symptoms of syphilis.

**32.** There are no tRNAs for stop codons. Give reason.

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**33.** A 10 year old child is suffering from chicken pox. Is this infection good or bad? Give reason

for your answer.

34. Why do we call some strains of bacteria as

'super bug'?

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35. Ecosan toilets are an excellent substitute

for chemical fertilizers. How?



36. Write about Wiener hypothesis?



# 37. 5 ightarrow 3 direction of a nucleic acid. Write the

meaning of 5 and 3 in the above Statement.

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# **38.** Why is typhoid called as enteric fever?



39. How are the different fish communities

living in a pond ecosystem?

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# 40. Describe species-area relationship on log

scale.



