



BIOLOGY

BOOKS - SARAS PUBLICATION

GOVT. MODEL SOLVED QUESTION PAPER 2019-20 (4)



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

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

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

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

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

Answer:



2. Which one of the following is incorrect regarding chromosomal behaviour during cell division?

A. The alleles of a genotype are foud in the some locus of a homologous chromosome.
B. In the S phse of meiotic interphase each

chromosome replicates forming two

copies of each allele, one on eahc

chromatid.

C. The l	nomologous	5 (chromosones	
segregate	e in met <i>a</i>	phase	, I thereby	
separating two different allels.				
D. In anaphase II of meiosis, separation of				
sister o	chromatid	of	homologous	
chromosones takes place.				

3. Which one of the following is a secondary

metabolite?

A. Ethanol

B. Acetic acid

C. Citric acid

D. Toxic pigments

Answer:

4. Which one of the following is a corre	ct set?
A. Vincristine-Cinchona officinalis	- Anti
carcinogen	
B. Capsaicin- catharanthus	roseus-
Antimalarial	
C. Digoxin - Digitalis purpuria-Cardia	ic tonic
D. Codeine-Capsicum annum -Analge	esic

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,[®] wong

B. Both (A) and (R) are correct, but (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.



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

A. Boerhaavia

B. Cleome

C. Bauhinia vahlii

D. Ecballium elaterium



7. Which one of the following food chain refers inverted pyramid?

A. Grasses \rightarrow Rats raar Snake raar Hawk

B. Banyan tree raarBird raarBeetlesraar

Fungi

C. Phytoplanktons raar Zooplanktonsraar

Fishes *raar*Snakes

D. Plantsraar Rabbits raar Foxraar Hawk

Answer:

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

fodder?

A. Gliricidia sepium

B. Nerrium

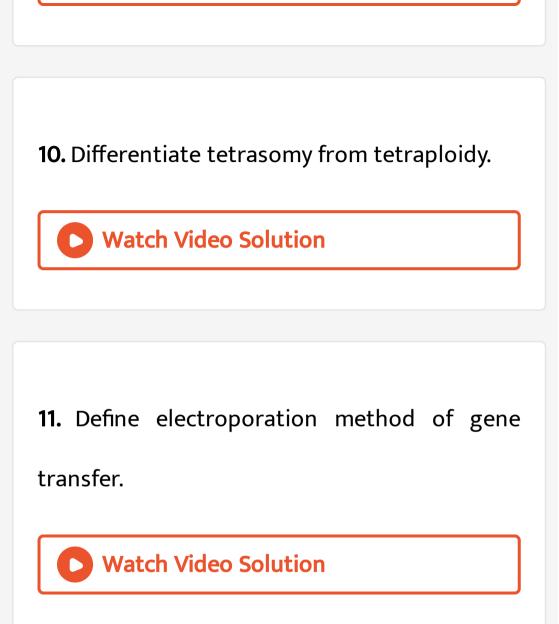
C. Aloe vera

D. Chrysanthemum

Answer:

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



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.



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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15. How does Rhytidome protect the plant

against forest fire?

16. In animals, loss of energy occures due to

evoporation of heat. How?

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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.

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. ectoderm and mesoderm layers

Answer:

23. Which one of the following is an incorrect

statement regarding uterus?

A. Is is an inverted pear shaped structure

B. It lies between urinary bladder and

rectum

C. The uterus opens into the vagina

through fundus

D. The wall of uterus has three layers.

Answer:





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)explains (A)



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

A. Male

B. Female

C. Gynandromorphs

D. Super male



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 synthetic drug

B. It is a type of passive immunity

C. IT is a natural immunity

D. IT is and artificial immunity.

Answer:

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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- Fab genes

C. A-Aplha toxin , B PCR genes

D. A-delta endotoxin, B Cry genes

Answer:

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28. Ecosphere means.

A. All the physical and biological

environment of an ecosystem

B. All the biological organisms of the earth

which interact with the physical envrronment.

- C. The physio-chemical environment of the earth.
- D. Smallest part of an ecosystem in which
 - organisms interact with physical

environment.

Answer:

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

A. most suitable temperature for

metabolism of lilving things.

B. Cyclone does not occur periodically.

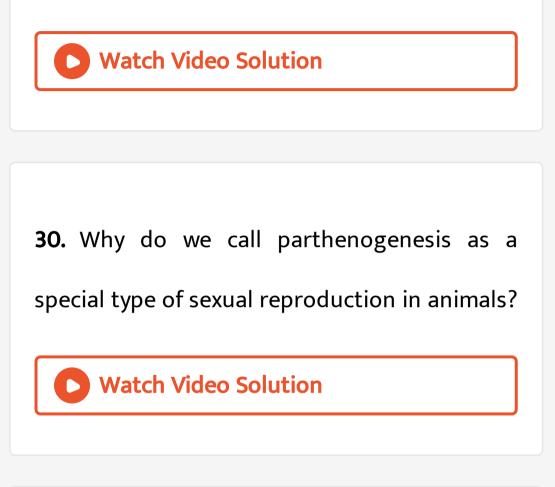
C. extreme temperature (@40c) during the

summer is favourable for plants.

D. Lengthy photoperiodism is useful for

photosynthesis.





31. Write the tertiary stage symptoms of syphilis.





32. There are no tRNAs for stop codons. Give

reason.



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?

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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.



