



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-3



1. Phylogenetic classification is the most favoured classification because it reflects

- A. Comparative Anatomy
- B. Number of flowers produced
- C. Comparative cytology
- D. Evolutionary relationships

Answer:

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2. Who proposed Tunica - Corpus theory

A. Hanstein

B. Schmidt

C. Popham

D. Sanio

Answer:

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3. Curcuma amada, Curcuma domestica,

Asparagus, Maranta are example of ____

A. Tuberous root

B. Beaded root

C. Moniliform root

D. Nodulose root

Answer:

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4. Whe a plant is transferred form water to a salt solution, the rate of respiration increases is called

- A. Anion respiration
- B. Active respiration
- C. Passive respiration
- D. Ionic respiration

Answer:

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5. The compound which links glycolysis and Krebs' cycle is

A. succinic acid

B. pyruvic acid

C. acetyl CoA

D. citric acid

Answer:

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6. Growth rate becomes zero in

A. Lag phase

B. Log phase

C. Decelerating phase

D. Maturation phase

Answer:

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7. Many cells function properly and divide mitotically even though they do not have

A. Plasma membrane

B. Cytoskeleton

C. Mitochondria

D. Plastids

Answer:

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8. One strand of DNA has the following sequence of nucleotide 3'ATTCGCTAT5'. So the other strand of DNA has

A. 5' TAAGCGATA 3'

B. 3' TAAGCGATA 5'

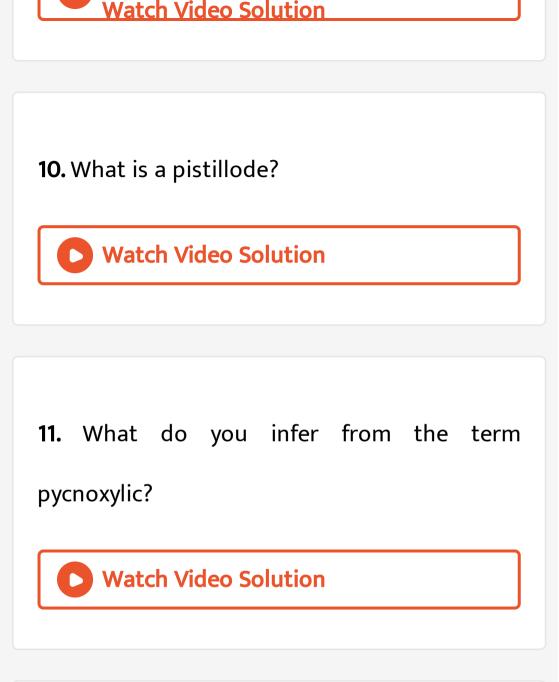
C. 5' GACGCGATA 3'

D. 3' GACGCGATA 5'

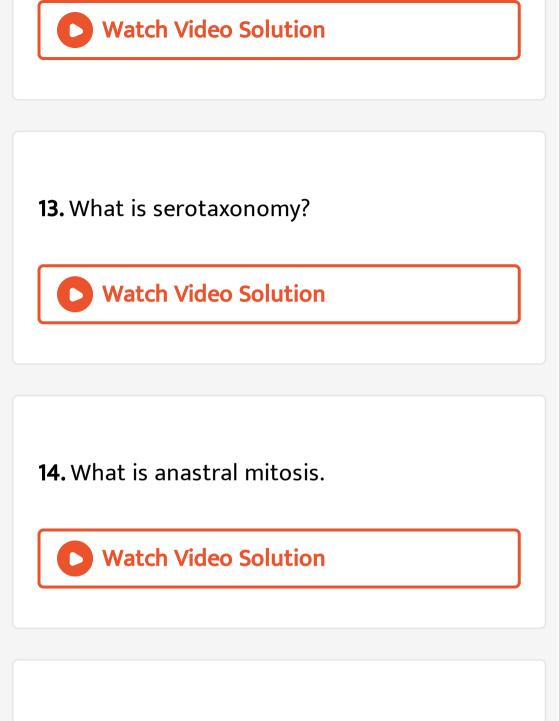
Answer:

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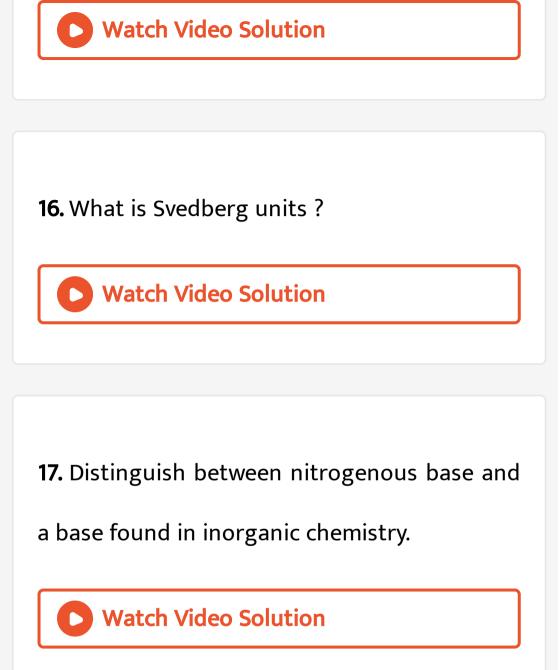
9. What is the end result of lytic cycle of multiplication?

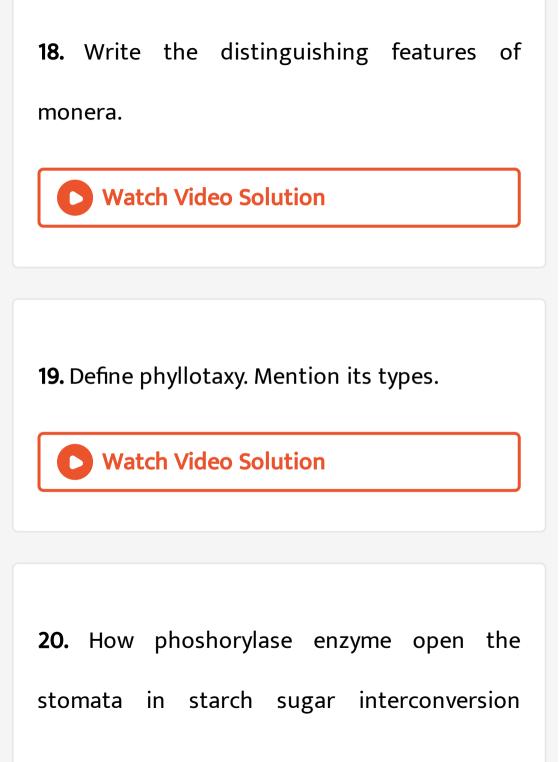


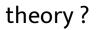
12. Define involute ptyxis. Give examples.



15. Define dendroclimatology.







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21. Why is that in certain plants deficiency symptoms appear first in parts of the plants while in others, they do so in mature organs?

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22. Define the term plasticity. Give example.

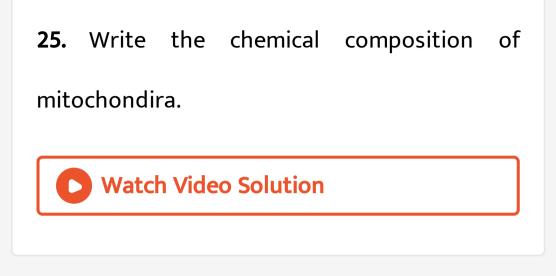
23. Do you think shape of chloroplast is unique

for algae. Justify your answer.

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24. What is cladogram? Draw a model

cladogram.

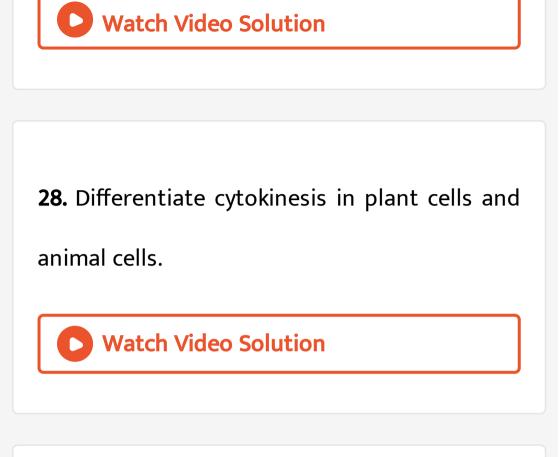


26. Comment on the heterophylly in terrestrial

plants.



27. Can bacteria reproduce sexually. Justify.

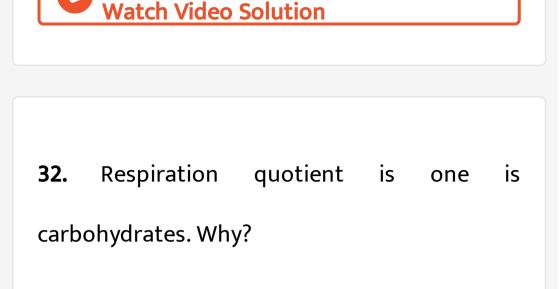


29. Explain sclereids with their types.

30. Explain the insectivorous mode of nutrition in angiosperms? **Watch Video Solution**

31. In Botany class, teacher explains, Synthesis of one glucose requires 30 ATPs in C_4 plants and only 18ATPs in C_3 plants. The same teacher explains C_4 plants are more advantageous than C_3 plants. Can you identify the reason for this cont





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33. A group of organisms having similar traits

of a rank is

A. Species

B. Taxon

C. Genus

D. Family

Answer:



34. The respiratory pigment in cockroach is

A. Haemoglobin

B. Haemocyanin

C. Oxyhaemoglobin

D. Haemoerythrin

Answer:

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35. Asseration (A) : Large intestine also shows

the presence of villi like small intestine.

Reason (B) : Absorption of water

A. Both A and B are true and B is the

correct explanation of A

B. Both A and B are true but B is not the

correct explanation of A

C. A is true but B is false

D. A is false but B is true

Answer:

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36. The Tidal Volume of a normal person is

A. 800 mL

B. 1200 mL

C. 500 mL

D. 1100- 1200 mL

Answer:

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37. The diagram given here is the standard ECG of a normal person. The P wave represents the



A. Contraction of both the atria

B. Initiation of the ventricular contraction.

C. Beginning of the systole.

D. End of systole

Answer:

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38. are the structural and functional unit of

kidneys.

A. Neuron

B. Nephron

C. Cyton

D. Dendron

Answer:

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39. Assertion (A) : Rapid muscle spasms occur

in the muscles.

Reason(R): Due to deficiency of parathyroid

hormone resulting in reduced calcium levels in

the body

A. (R) is correct but (A) is wrong

B. (A) is correct but (R) is wrong

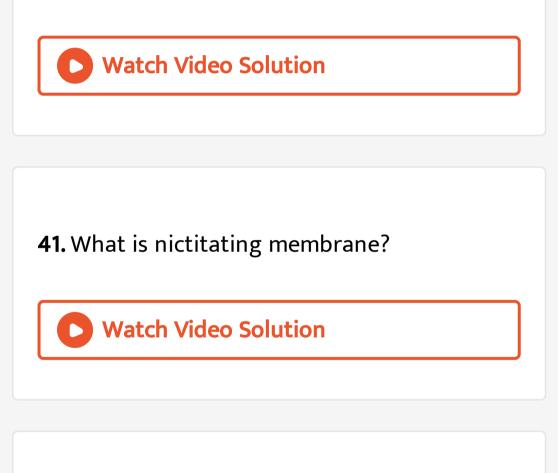
C. (A) is correct but (R) explains (A)

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

Answer:

40. List the features that all vertebrates show

at some point in their development.



42. What is inspiration?

43. What is the nitrogenous waste produced

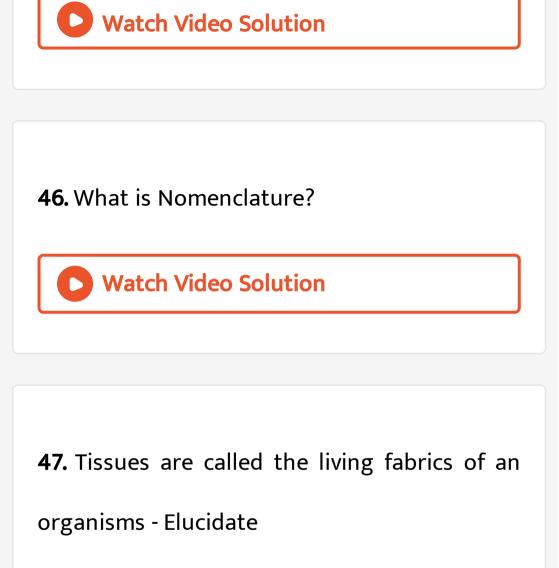
by amphibian larvae and by the adult animal?



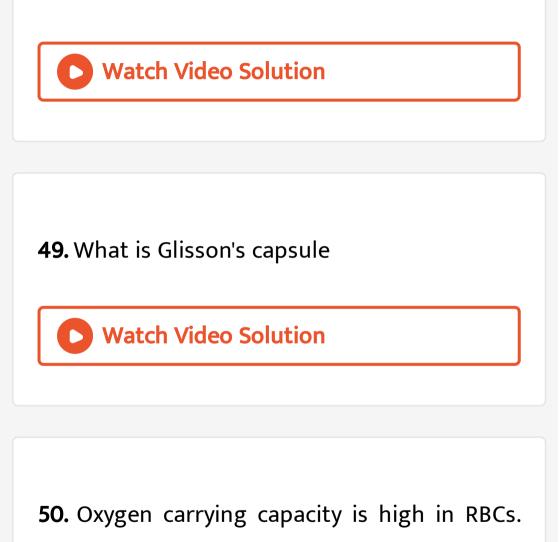
44. What is choroid plexus?



45. Define hyperparasitism.



48. What is deglutition?



Why?

51. What is called haematocrit?



52. Name the filaments present in the

sarcomere.



53. What is actin?



54. Why insulin is called hypoglycemic hormone ?

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55. Mention any two role of glucagon in our

body.

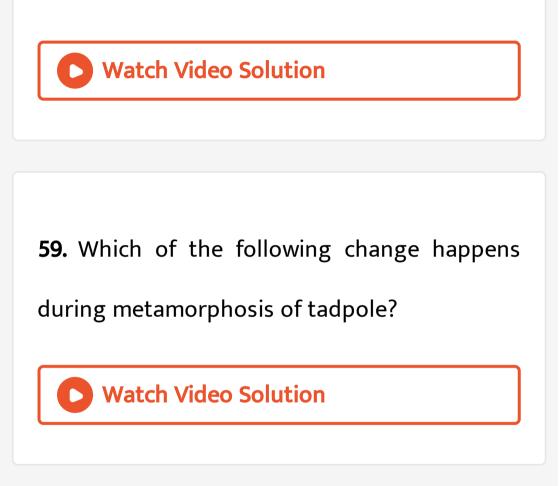
56. Diffusion of gases occurs in the alveolar region only and not in the other parts of respiratory system. Why?

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57. Sketch a flow chart to show the path way of

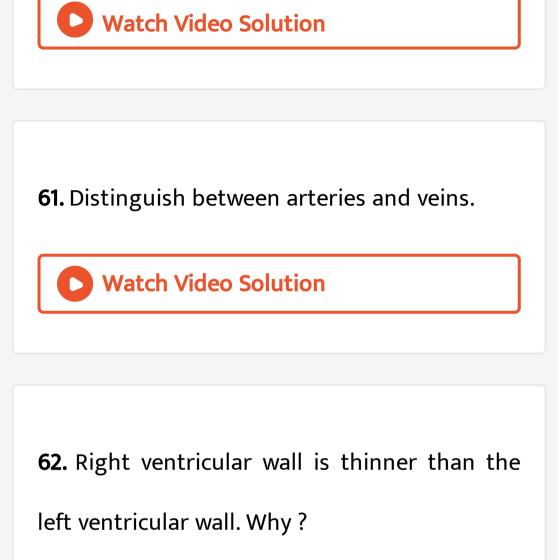
air flow during respiration.

58. What is metamorphosis in frog?



60. Name the stages of metamorphosis in

frog.





63. Tabulate the difference between sympathetic and para sympathetic neural system.