



# BIOLOGY

## **BOOKS - SARAS PUBLICATION**

## **MODEL QUESTION PAPER-9**



1. Which one of the following statement about virus is correct?

A. Possess their own metabolic system

B. They are facultative parasites

C. They contain DNA or RNA

D. Enzymes are present

### Answer:





2. Algae which form motile colony is

A. Volvox

B. Nostoc

C. Spirogyra

D. Chlamydomonas

### Answer:

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3. The term anthesis is used for

A. Opening of flower

B. Formation of anther

C. Falling of flower

D. Drying of flower

### Answer:



4. 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:

5. The most basic amino acid is

A. Arginine

B. Histidine

C. Glycine

D. Glutamine

### Answer:

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6. Stomata of a plant open due to

A. Influx of  $K^+$ 

B. Efflux  $K^+$ 

C. Influx of  $Cl^-$ 

D. Influx of  $OH^{\,-}$ 

### Answer:



7. Who coined the term hydroponics ?

A. Julius Von Sachs

B. William Frederick Goerick

C. Liebig

D. Wood word

### Answer:

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8. Which gymnosperm yields the resin Canada balsma and what is its use?

9. Write the similarities and differences between

Fusiform and Napiform root

**10.** What are the factors affecting the rate of enzyme reaction?

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11. Why the cells of sclerenchyma and tracheids become dead?

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12. Define lenticel.

**13.** Write the simple equation of photosynthesis as given by Van Neil.

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**14.** Why do farmers plant leguminous crops in crop rotations/mixed cropping?

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15. Define - dichotomous key.

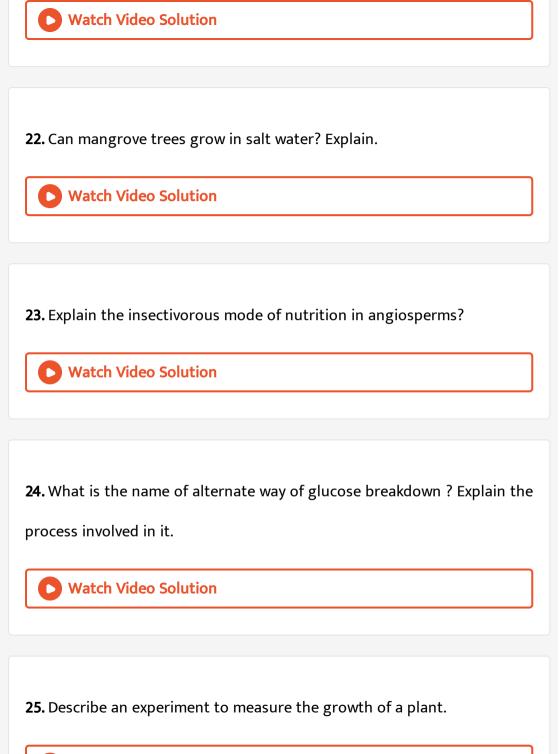
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16. Differentiate between mitosis and meiosis.

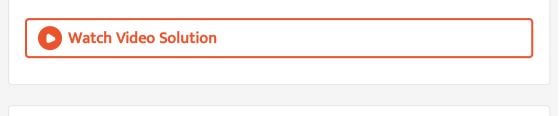
## **17.** Explain the structure and function of different types of RNA.

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<b>18.</b> What is transition reaction?
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<b>19.</b> What are the five major groups of plant hormones?
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20. Write the differences between Banyan and silk cotton
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**21.** Define conduplicate ptyxis.



**26.** What is the role of mitochondira in evolution?



27. Write the characteristic features of DNA.

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28. Which of the following is an egg laying mammal?

A. Delphinus

**B.** Macropus

C. Omithorhynchus

D. Equus

### Answer:



29. Which of the following is an egg laying mammal?

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D. Equus

Answer:

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30. Select the correct sequence

A.

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ightarrow Cells 
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Β.

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D.

Organisms 
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ightarrow Organsystem 
ightarrow cells 
ightarrow Tissues 
ightarrow M

#### Answer:

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31. In frog, the finger like folds of an intestine is

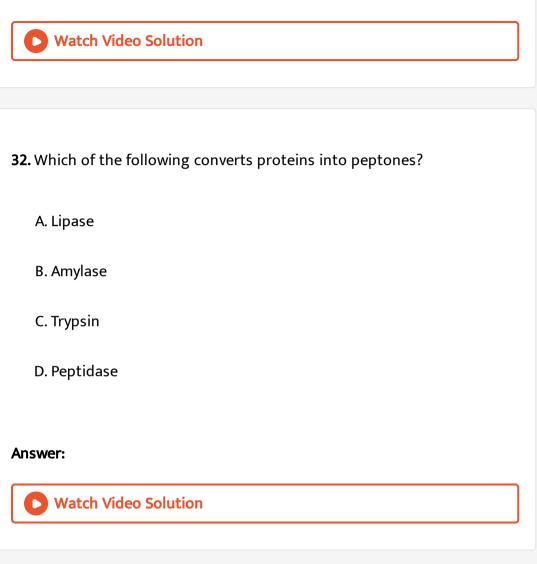
A. Pyloric constriction

B. Villi

C. Sphincter

D. Microvilli

### Answer:



**33.** Make the correct pairs.



A. P-ii , Q-iv , R -i , S-iii

B. P-iii, Q-ii, R-iv, S-i

C. P-ii, Q-iv, R-iii, S-i

D. P-iii , Q-iv , R -i , S -ii

### Answer:

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34. Erythro blastosis foetalis is due to the distruction of

A. Foetal RBCs

B. Foetus suffers from atherosclerosis

C. Foetal WBCs

D. Foetus suffers from minamata

### Answer:

35. What are the water-permeable channels of collecting duct called as?

A. Aquaporins

**B.** Calyces

C. Peritubular capillaries

D. Hyaline

### Answer:

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36. The thin filament of muscle fibre is made up of

A. Myosin

B. Actin

C. Neuromyosin

D. Glycogen

### Answer:



37. What is Binomial Nomenclature?

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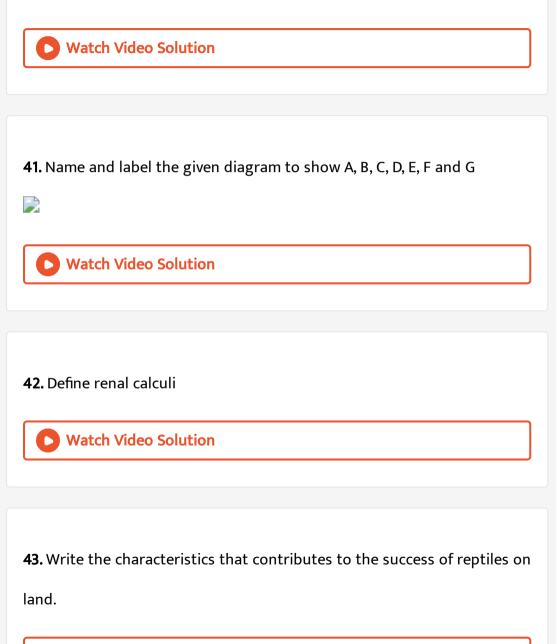
**38.** Why are spongin and spicules important to a sponge?

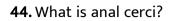
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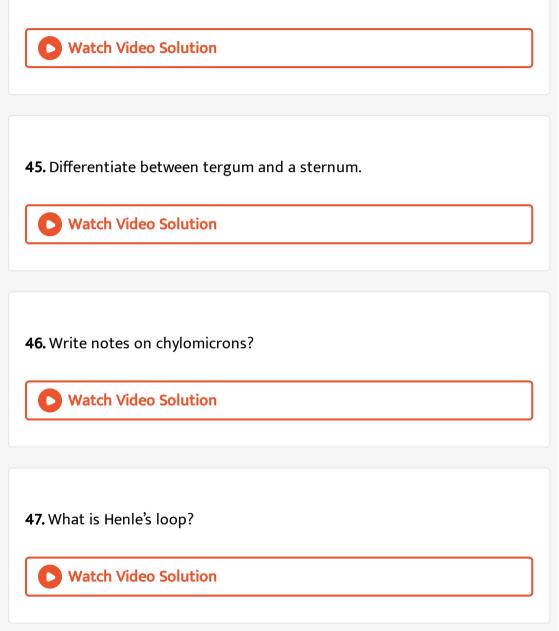
39. Write short notes on Skeletal muscle.

40. The rate of breathing in aquatic animals is faster than the terrestrial

animals. Give reason.







### **48.** Where is it located?

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<b>49.</b> What is 'accommodation of the human eye?	
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<b>50.</b> What is meant by composite fish culture?	
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<b>51.</b> Describe the mechanism by which the human heart beat is initiated and controlled.	
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52. Which is the largest, longest and strongest bone in the human body?

Explain its structure.

