



# **BIOLOGY**

# **BOOKS - SARAS PUBLICATION**

# **MODEL QUESTION PAPER-10**



1. Bryophyllum and Dioscorea are example for

A. Foliar bud, apical bud

- B. Foliar bud, cauline bud
- C. Cauline bud, apical bud
- D. Cauline bud, foliar bud

#### Answer:

- 2. Arrange the following in correct order
- A. Apple i) drupe
- B. Pea -ii) hesperidium

C. Orange -iii) Legume

D. Mango - iv) Pome

A. A-i, B-iii, C-iv, D-ii

B. A-iv, B-ii, C-i, D-iii

C. A-iv, B-iii, C-ii, D-i

D. A-ii, B-iii, C-i, D-iv

#### Answer:



**3.** In pachytene stage of meiosis the chromosomes appear

A. Single stranded

B. Double stranded

C. Three stranded

D. Four stranded

### Answer:

4. Grafting is successful in dicots but not in monocots because the dicots have
A. Vascular bundles arranged in a ring
B. Cambium for secondary growth
C. Vessels with elements arranged end to

end

D. Cork cambium

**Answer:** 

5. Consider the following statements. Organization of vascular cambium (i) The cells of vascular cambium do not fit into the usual description (ii) vascular cambium possesses Cells with large central vacuole surounded by a thin, layers of dense cytoplasm (iii) The vascular combium is the presence of three kinds of initials.

A. (i) is correct but (ii) and (iii) are not correct

- B. (i) and (ii) are correct but (iii) is not correct
- C. (i) and (ii) are not correct but (iii) is correct
- D. (i) is not correct but (ii) and (iii) are

correct

Answer:

**6.** Identify true statement regarding light reaction of photosynthesis

A. Splitting of water molecule is associate

with PS I.

B. PS I and PS II involved in the formation of

 $NADPH + H^+$ .

C. The reaction center of PS I is Chlorophyll

a with absorption peak at 680 nm.

D. The reaction center of PS II is Chlorophyll

a with absorption peak at 700 nm

#### **Answer:**

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**7.** Assertion (A) : Oxidative phosphorylation takes place during the electron transport chain in mitochondria.

Reason (R): Succinyl CoA is phosphorylated

into succinic acid by substrate phosphorylation.

A. A and R are correct. R is correct explanation of A

B. A and R are correct but R is not the

correct explanation of A

C. A is correct but R is wrong

D. A and R are wrong.

#### Answer:

### 8. This is an anti auxin compound

A. 2, 4-D

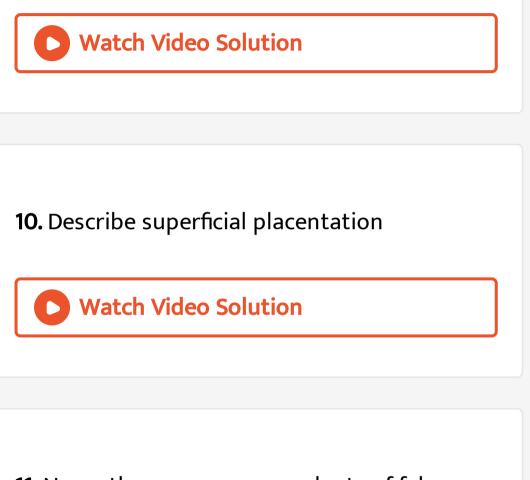
**B. TIBA** 

C. PAA

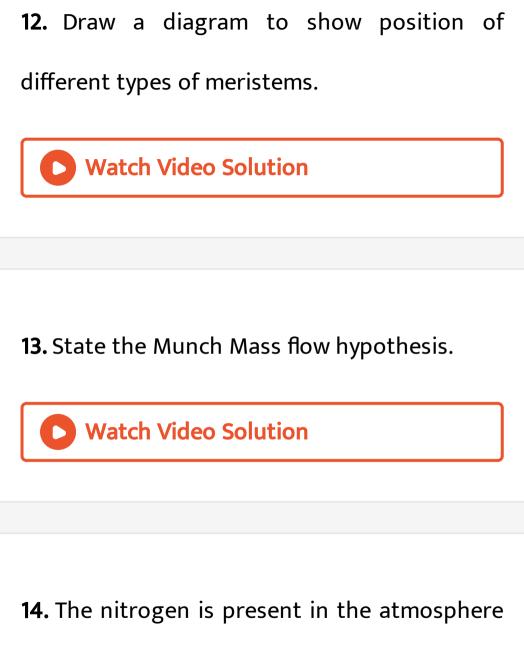
D. IBA

#### **Answer:**

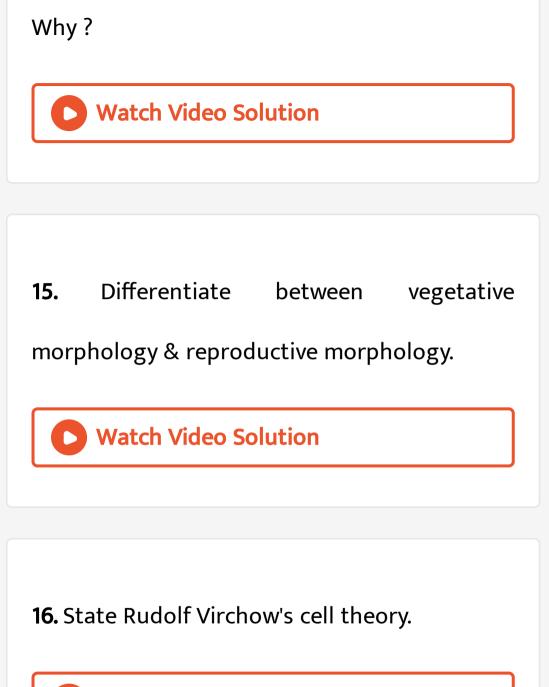
climbers?



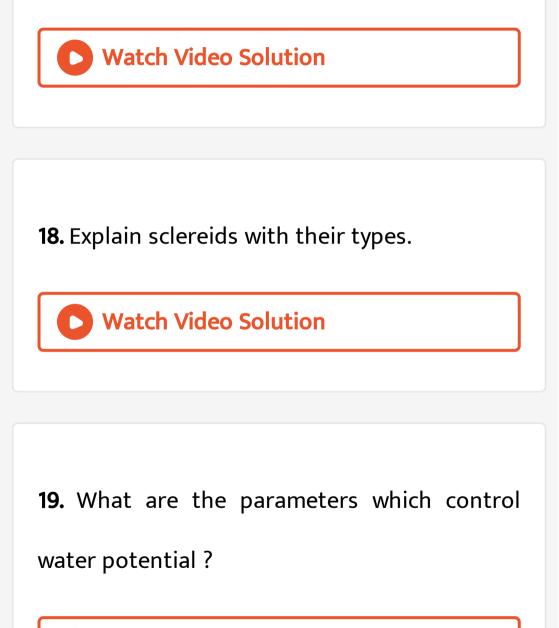
11. Name the green manure plants of fabaceae.



in huge amount but plants fail to utilize it .



**17.** Write about pachytene of prophase I.

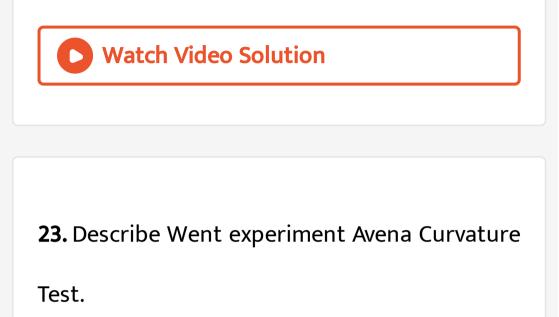


**20.** Name the common in nitro hydrogen acceptors.



**21.** Briefly discuss on five kingdom classification. Add a note on merits and demerits.

22. Write notes on phycobilins.



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24. Write the names of soft fibres.

**25.** Differentiate between aggregate fruit with multiple fruit.

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26. Explain the structure and function of

tRNA?

27. Do mushroom cells have cell wall?



28. A transverse section of the trunk of a tree shows concentric rings which are known as growth rings . How are these rings formed ? What are the significance of these rings ?



## 29. Match the following columns and select

#### the correct option.

| Column – I |              | Column – II       |  |
|------------|--------------|-------------------|--|
| (p)        | Pila         | (i) Devil fish    |  |
| (q)        | Dentalium    | (ii) Chiton       |  |
| (r)        | Chaetopleura | (iii) Apple snail |  |
| (s)        | Octopus      | (iv) Tusk shell   |  |

A. p - (ii), q-(i), r - (iii), s - (iv)

#### Answer:

**30.** The tissue present in the lining of kidney tubules ducts and secretory portions of glands.

- A. Squamous epithelium
- B. Glandular epithelium
- C. Cuboidal epithelium
- D. Columnar epithelium

#### Answer:





**31.** Buccopharyngeal respiration in frog:

A. Is increased when nostrils are closed

B. Stops when there is pulmonary

respiration

C. Is increased when it is catching fly

D. Stops when mouth is opened.

Answer:

32. Where does our buccal cavity open?

A. Oesophagus

B. Salivary gland

C. Pharynx

D. Stomach

Answer:

**33.** Which of the following substances in tobacco smoke damage the gas exchange system?

A. Carbon monoxide and carcinogens

B. Carbon monoxide and nicotine

C. Carcinogens and tar

D. Nicotine and tar

**Answer:** 

# **34.** Match the term given under column 'A' with their functions given under column B and select the answer from the options given below.

| Column I                 | Column II           |
|--------------------------|---------------------|
| A. Lymphatic system      | (i) Carries oxy-    |
|                          | genated blood       |
| B. Pulmonary vein        | (ii) Immune         |
| and the second           | response            |
| C. Thrombocytes          | (iii) To drain back |
|                          | the tissue fluid    |
| and the formation of the | to the circula-     |
| and the second second    | tory system         |
| D. Lymphocytes           | (iv) Coagulation of |
|                          | blood               |

A. A-ii, B-i,C-iii, D-iv

B. A-iii, B-i,C-iv, D-ii

C. A-iii, B-i,C-iii, D-iv

D. A-ii, B-i, C-iii, D-iv

#### Answer:

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**35.** Kidney stones are produced due to deposition of uric acid and

A. Silicates

**B.** Minerals

C. Calcium carbonate

D. Calcium oxalate

#### Answer:

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36. Assertion (A): Osteoporosis occurs due to

deficiency of vitamin D and hormonal

Reason (R): Osteoporosis causes rickets in children and osteomalacia in adult females.

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:

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37. What is PCR?

**38.** Head of cockroach is called Hypognathous.

Why?



## **39.** What is Expiratory Capacity (EC)?

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**40.** Give the formula for net filtration pressure.

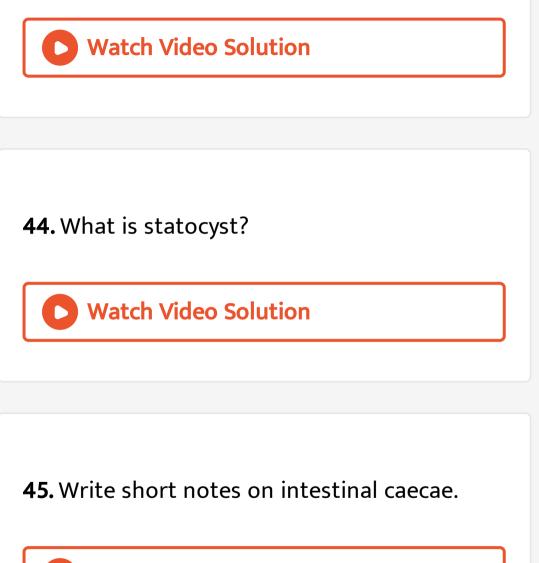


**41.** Sam's optometrist tells him that his intraocular pressure is high. What is this condition called and which fluid does it involve ?



# **42.** What is meant by animal husbandary?

**43.** What is sexual dimorphism?



46. Write short notes on emphysema



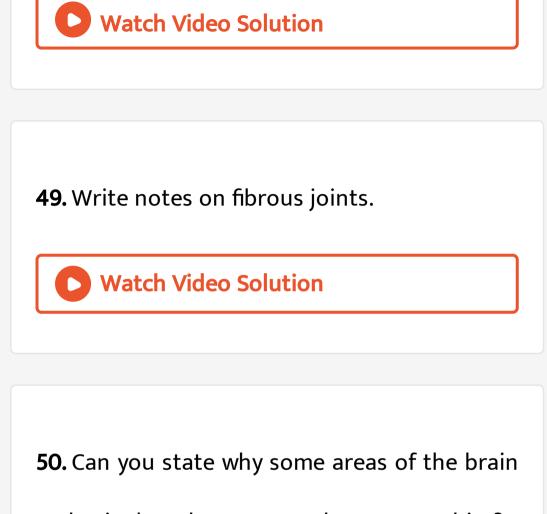
## 47. What are the different types of permanent

teeth?

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48. How are nephrons classified based on the

length of Henle's loop?

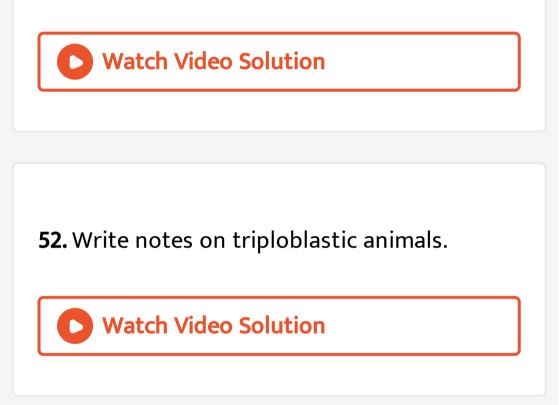


and spinal cord are gray and some are white?



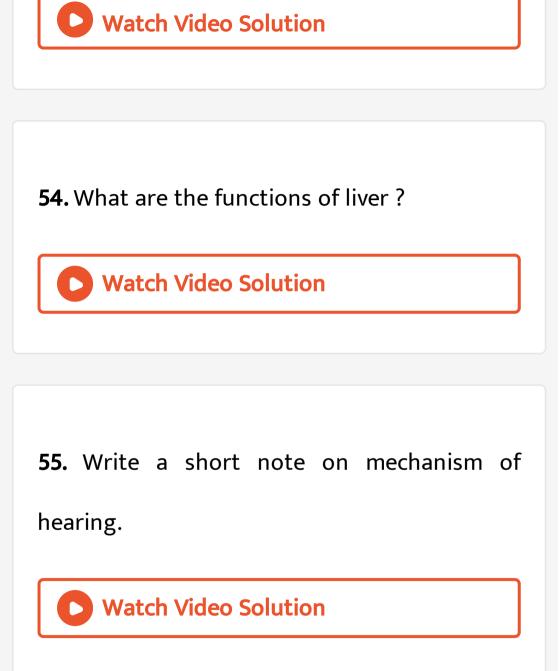
51. Name some molecular techniques used for

taxonomical classification.

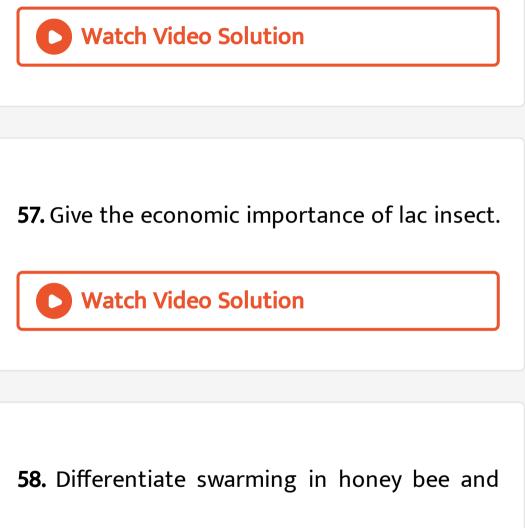


53. Draw a neat diagram of digestive system of

frog.



56. Write short notes on lymphocytes.



lac insect.

