



## **BIOLOGY**

# **BOOKS - VGS PUBLICATION-BRILLIANT**

# **MODEL PAPER 3**



## 1. Differentiate osmosis from diffusion.

2. Define the law of limiting factors proposed

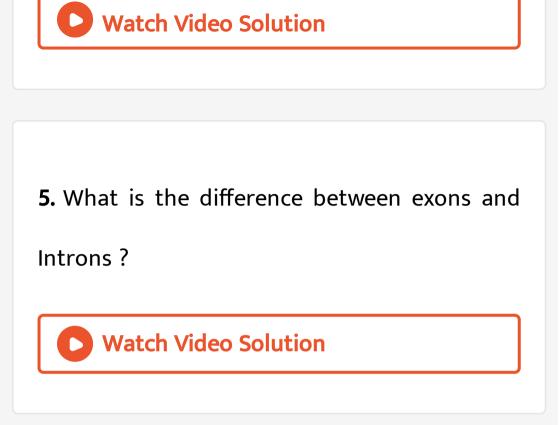
by Blackman.

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**3.** What are Pleomorphic Bacteria ? Give an example

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**4.** What is point mutation? Give one example.



**6.** Distinguish between heterochromatin and euchromatin. Which of the two is transcriptionally active ?

#### 7. How does one visualize DNA on an agar - gel

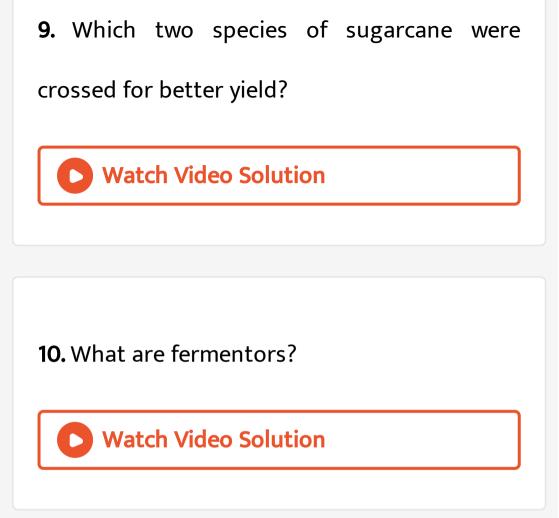
?



8. Name the nematode that infects the roots

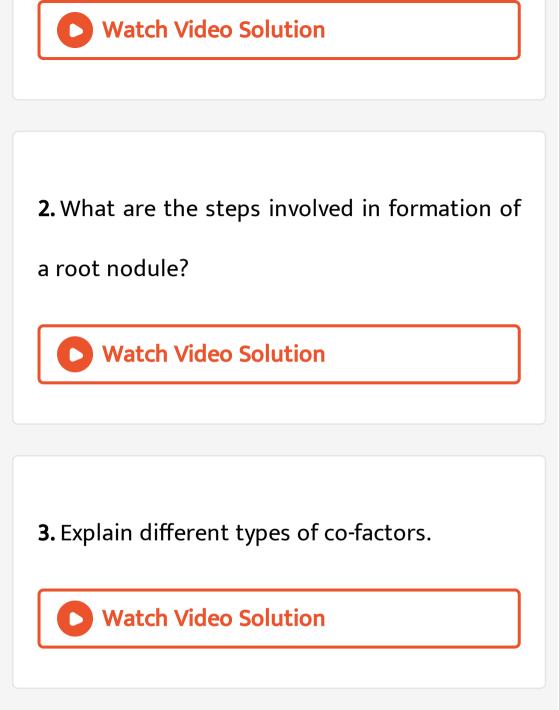
of tobacco plants. Name the strategy adopted

to prevent this infestation.





**1.** Transpiration is necessary evil. Explain?



4. Write a note on agricultural / horticultural

applications of auxins.

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5. Explain the structure of T -even

Bacteriophages .

6. Explain the Law of Dominance using a monohybrid cross.
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7. What are the main differences between DNA

and RNA?



8. List out the beneficial aspects of transgenic plants.

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**1.** Give an account of glycolysis, Where does it occur ? What are the end products? Trace the fate of these products in both aerobic, and anaerobic respiration.





## 2. Give a brief account of the tools of

#### recombinant DNA technology.

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**3.** Describe the tissue culture. technique and, what are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes ?

