

# THE BRIGADE SCHOOL

Total points 11/15 ?

Subject: BIOLOGY

Class X

Max.Marks: 40

This paper consists of two parts

PART 1- OBJECTIVE TYPE- 15 marks

PART 2- SUBJECTIVE TYPE (Separate link)- 25 marks

Email address \*

mananmehtabatman@gmail.com

## PART 1- OBJECTIVE TYPE

0 of 0 points

Max.Marks: 15

Name : \*

Manan Y Mehta ▼

Class : \*

10 A ▼

School : \*

TBSG ▼

Choose the Correct Answer

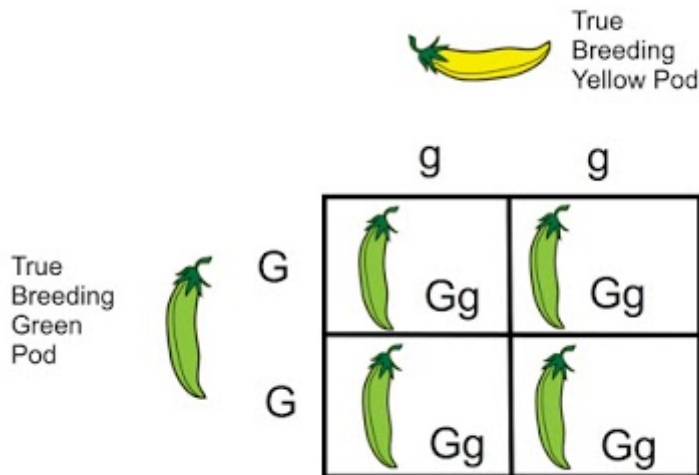
11 of 15 points



Each Question Carries 1 Mark

✗ 1. Which Mendelian law/(s) of Inheritance can be studied in the cross given below \*

0/1



- ☐ a) Law of dominance and Law of independent assortment
- ☐ b) Law of dominance and Law of segregation
- ☒ c) Law of dominance

✗

Correct answer

- ☒ b) Law of dominance and Law of segregation



✓ 2. Which of the following statements is incorrect? \*

1/1

- ☐ a) exudation from injured plant parts is called bleeding
- ☒ b) girdling experiment retains the phloem tissue in the plant itself ✓
- ☐ c) Open stomata, dry atmosphere and moist soil results in maximum transpiration pull

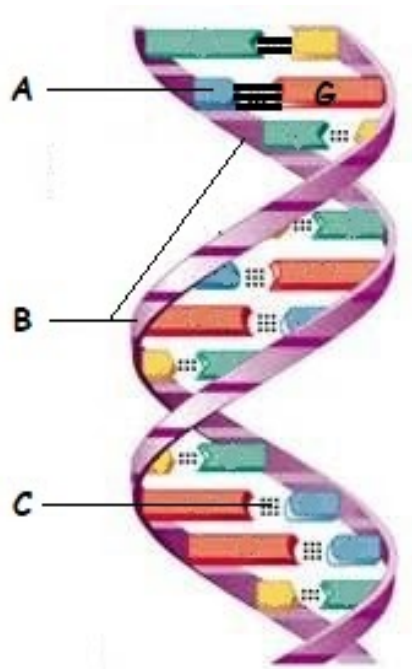
#### Feedback

*Note: Girdling experiment retains xylem and for study of direction of flow of food, the outer bark including phloem is removed.*



✗ 3. Identify the correct labels for the diagram given below. \*

0/1



- ☐ a) A- hydrogen bond B- polynucleotide strands C- base pair
- ☐ b) A- cytosine B- polynucleotide strands C- hydrogen bond
- ☒ c) A- cysteine B- sugar phosphate backbone C- hydrogen bond

✗

Correct answer

- ☒ b) A- cytosine B- polynucleotide strands C- hydrogen bond



✓ 4. How many nuclear divisions does a single diploid cell undergo for the formation of sperm cells? \* 1/1

- ☒ a) two
- ☐ b) four
- ☐ c) one

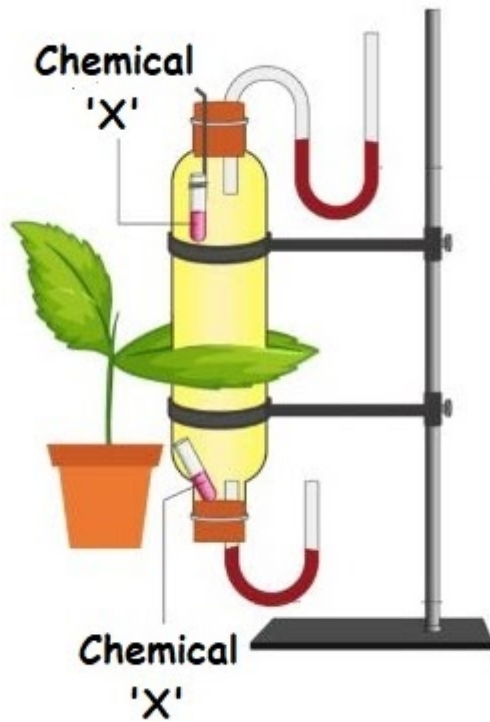


**Feedback**

*Note: Meiosis cell division involves two nuclear divisions.*



✓ 5. What is the purpose of using chemical X in the given experiment? \* 1/1



- ☒ a) absorption of moisture
- ☐ b) colour indicator
- ☐ c) prevents evaporation



#### Feedback

*Note: The chemical 'X' is Calcium chloride*

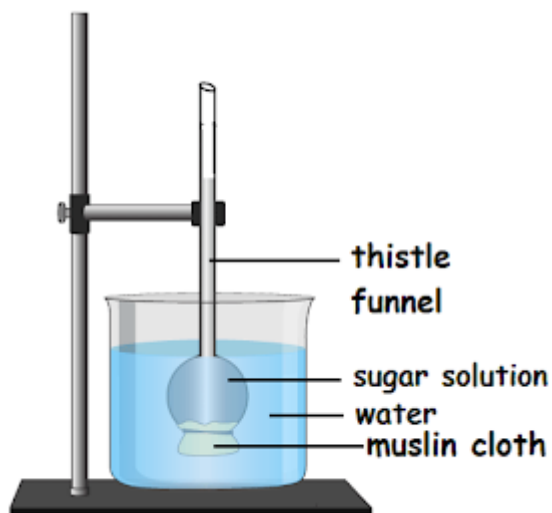


✓ 6. A spontaneous alteration in the genetic material that can be inherited \*1/1

- ☐ a) crossing over
- ☒ b) mutation
- ☐ c) genotype



✗ 7. When the given experimental set up is kept aside for a while the level of sugar solution inside the thistle funnel ..... \*



- ☐ a) decreases
- ☒ b) increases
- ☐ c) remains the same



Correct answer

- ☒ a) decreases

Feedback

*NOTE: pores of muslin cloth are so large that they would not hold back even the sugar molecules and the entire sugar solution would flow down to a common level due to gravity.*



✓ 8. Artificial arrangement of chromosomes in pairs in order of their size and shape \* 1/1

- ☐ a) recombination
- ☐ b) karyokinesis
- ☒ c) karyotype



✓ 9. Which of the following is not an appropriate reason for wilting in plants? \* 1/1

- ☐ a) The rate of loss of water from the plant is greater than the absorption of water in the plant.
- ☒ b) plants cells sap is hypotonic
- ☐ c) decreased turgor pressure



#### Feedback

*Note: If not enough water is available, the plant will wilt because its cells have lost water and the sap is now hypertonic which means the concentration of solute is too high.*

✓ 10. Pick the odd one out from the following terms: \* 1/1

- ☒ a) heterologous chromosome
- ☐ b) chiasmata
- ☐ c) non sister chromatids
- ☐ d) crossing over





✗ 11. Rearrange the terms in a logical sequence based on loss of water due to transpiration \* 0/1

- ☒ a) A-stoma B- mesophyll cells C- xylem D- substomatal space E- intercellular space ✗
- ☐ b) A- xylem B- mesophyll cells C- intercellular space D- substomatal space E- stoma
- ☐ c) A-stoma B- intercellular space C- mesophyll cells D- substomatal space E- xylem

Correct answer

- ☒ b) A- xylem B- mesophyll cells C- intercellular space D- substomatal space E- stoma

12. Match the following descriptions with the appropriate terms. \*

	osmosis	autosome	imbibition	allosome	variation	Score	
a) chromosomes other than the pair of sex chromosomes	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1/1	✓
b) absorption of water by seeds	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1/1	✓
c) small differences between individuals of the same species	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
d) absorption of water by root	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1/1	✓

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)



Google Forms

