	<h1 style="text-align: center;">SUCCESS KEY TEST SERIES</h1> <p style="text-align: center;">X (English)</p> <p style="text-align: center;">(Worksheet -2 Sci-2 (Ch-7,8))</p> <p style="text-align: center;">Science And Technology - II-</p>	DATE:					
		TIME: 1 hrs					
		MARKS: 20					
		SEAT NO: <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>					

**Q.1 A) Solve the following questions. (2)**

**1) State True or False**

Whey is in-corporated into. Cheese to give it texture

**2) Organ donation and transplantation is under the control of .....**

**B) Choose the correct alternative and rewrite the sentence (3)**

**1) Which is a Gram negative bacterium out of the following?**

- a. Streptococcus thermophilus      b. Saccharomyces cerevisiae  
c. Acetobacter      d. Aspergillus oryzae

**2) What is true about stem cells ?**

- a. they are Primary type of undifferentiated cells  
b. They have self-multiplying ability  
c. Are parent cells of all types of human cells.  
d. All of the above are true

**3) When zinc metal is added to acetic acid .....**

- a. A solid settles at the bottom  
b. The mixture becomes warm  
c. The colour of the mixture becomes yellow  
d. A gas is evolved

**Q.2 Solve the following questions. (Any two) (4)**

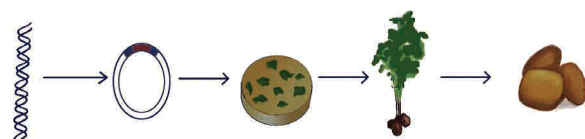
**1) Stem cells are primary type of undifferentiated cells with self-multiplying ability and they are parent cells of all types of human cells.**

**2) Define Bioinsecticides**

**3) Give any four examples of bacteria used in beverage.**

**Q.3 Solve the following questions. (Any two) (6)**

**1) Fill in the following paragraph :**



Work on production of ..... vaccines is in progress and presently, potatoes are being produced with the help of biotechnology. These potatoes are called as ..... potatoes. These potatoes will act against ..... like Vibrio cholerae, Escherichia coli. Consumption of these raw potatoes generates the ..... against cholera and the disease caused due to .....

2) Now-a-days, instead of chemical catalysts, microbial enzymes are used in chemical industry ? Explain ?

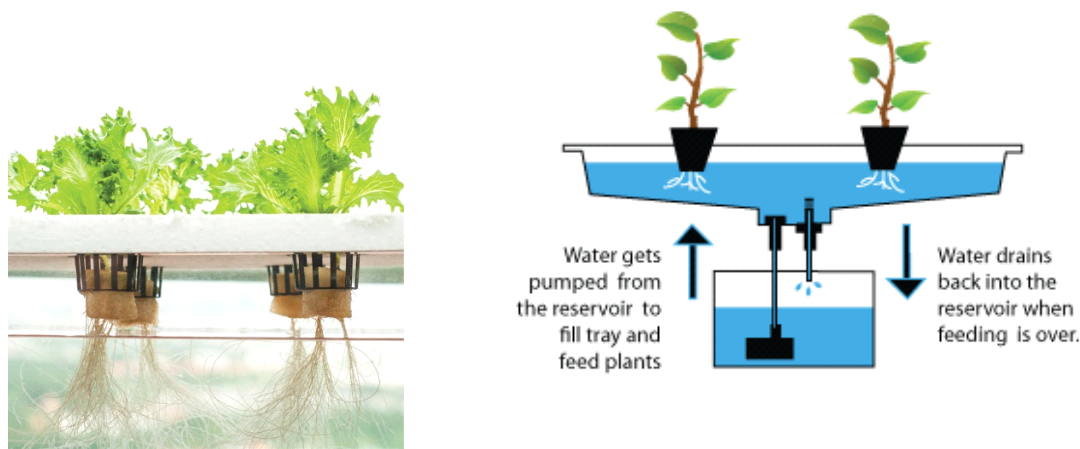
3) Organic acids used in various commercial products and microbes useful for the same

Source	Amino acid	Use
Sugar and beet molasses, ammonia salt	.....	Production of monosodium glutamate (Ajinomoto)
Sugar molasses, salt	Citric acid	.....
Glucose, corn steep liquor	.....	Production of minerals used as supplement for calcium and iron
Molasses, corn steep liquor	Lactic acid	.....
Molasses, corn steep liquor	.....	.....

**Q.4 Answer in brief (Any one)**

**(5)**

1) Explain the following diagram in detail.



2) Production of beverages.

Fruit	Microbe used	Role of microbe	Name of beverage
Coffea arabica	.....	Separating seeds from fruit	.....
.....	Candida, Hansenula, Pichia, Saccharomyces.	.....	Cocoa
Grapes	Saccharomyces cerevisiae	.....	.....
Apple	.....	Fermentation of juice	.....