Chapter 6

1.	Yeast is a simple (1) When magnified under a
	(2), it is seen to be made up of single cells. Yeast
	can be grown on jelly-like food called (3) or in liquid
	culture rich in (4)
2.	During laboratory work with micro-organisms (such as yeast),
	precautions are taken to try to create sterile ((5))
	conditions. For example a special container called an
	(6) is used to sterilize apparatus and nutrient agar
	by heating them to 1210C for 20 minutes. A Bunsen burner is used to
	heat a wire inoculating loop until it is (7) and to
	(8) the neck of any culture bottle in use.
3.	When added to bread (9), yeast produces bubbles
	of (10) gas. These get caught in the dough and
	make it (11)
4.	During beer-making, yeast is used to change sugar into
	(12) and carbon dioxide. This chemical reaction is
	called (13)

5.	The alcohol content of beer varies. It is affected by factors such as
	the type of (14) used, the (15) at
	which the process is carried out and the length of fermentation
	(16)
6.	(17)conditioned beer has its yeast removed and
	extra carbon dioxide added. (18)conditioned beer
	(real (19)) does not have its yeast removed and the
	yeast continues to produce carbon dioxide in the cask.
7.	An (20) is a substance that controls a biochemical
	reaction. Enzymes from bacteria can change milk sugar to simpler
	sugars and (21) Enzymes in yeast cells can change
	simple sugars to alcohol. These enzymes from microbes can change
	milk into a (22) milk drink.
8.	Enzyme molecules and yeast cells can be (23)
	(trapped) in (24) pellets. After they have brought
	about the required chemical reaction, they can be
	(25)
9.	Yeast is used to (26) certain foods. Pink yeast can

10.	If wastes from yeast-based industry were released into a river, they
	would (28) the water. Bacterial numbers in the
	river water would rise and (29) content would drop.
	To prevent this happening and to increase profit, the waste is
	(30) into animal feed.

alcohol ale aseptic autoclave Brewery carbon dioxide Cask colour dough enzyme fermentation fermented flame flavour fungus gel immobilized lactic acid microscope nutrient agar oxygen pollute red hot reused rise sugar temperature time upgraded yeast

-----Word Bank-----

Chapter 6

- 1. Yeast is a simple fungus. When magnified under a microscope, it is seen to be made up of single cells. Yeast can be grown on jelly-like food called nutrient agar or in liquid culture rich in sugar.
- During laboratory work with micro-organisms (such as yeast), precautions are taken to try to create sterile (aseptic) conditions. For example a special container called an autoclave is used to sterilize apparatus and nutrient agar by heating them to 1210C for 20 minutes. A Bunsen burner is used to heat a wire inoculating loop until it is red hot and to flame the neck of any culture bottle in use.
- 3. When added to bread dough, yeast produces bubbles of carbon dioxide gas. These get caught in the dough and make it rise.
- 4. During beer-making, yeast is used to change sugar into alcohol and carbon dioxide. This chemical reaction is called fermentation.
- 5. The alcohol content of beer varies. It is affected by factors such as the type of yeast used, the temperature at which the process is carried out and the length of fermentation time.
- 6. Brewery-conditioned beer has its yeast removed and extra carbon dioxide added. Cask-conditioned beer (real ale) does not have its yeast removed and the yeast continues to produce carbon dioxide in the cask.
- 7. An enzyme is a substance that controls a biochemical reaction. Enzymes from bacteria can change milk sugar to simpler sugars and lactic acid. Enzymes in yeast cells can change simple sugars to alcohol. These enzymes from microbes can change milk into a fermented milk drink.

- 8. Enzyme molecules and yeast cells can be immobilized (trapped) in gel pellets. After they have brought about the required chemical reaction, they can be reused.
- 9. Yeast is used to flavour certain foods. Pink yeast can be used to colour the flesh of farmed salmon.
- 10. If wastes from yeast-based industry were released into a river, they would pollute the water. Bacterial numbers in the river water would rise and oxygen content would drop. To prevent this happening and to increase profit, the waste is upgraded into animal feed.