

**CLASSIC STUDY ONE OF THE BEST ONLINE STUDY**  
**PLAT FORM**

Name of Student	Class	Subject	Board	Chapter
	10 <sup>th</sup>	Biology	(F.B)	08
Date :	Objective			Teacher Remarks

Section - A

Q. No.1:- Circle the correct option. Each part carries one mark.

i	In alcoholic fermentation the product i.e. is						
a	Acetaldehyde	b	Ethanol	c	Lactic acid	d	Pyretic acid
ii	Find the correct match for the fermentation product and the organism involved						
a	Formic acid – Saccharomyces	b	Ethanol-Aspergillus	c	Ethanol – Saccharomyces	d	Glyeerol-Aspergillus
iii	Which of these is an anti-viral protein						
a	Urokinase	b	Thymosin	c	Insulin	d	Interferon
iv	_____is an artificial synthesis modification , removal addition and repair of the genetic material :						
a	Ecology	b	Biotechnology	c	Biology	d	Genetic
v	In _____ scientists were able to cut and paste the DNA of organisms.						
a	1960’s	b	1950’s	c	1970’s	d	1940’s
vi	The complete map of human genes was published in _____						
a	2002	b	2000	c	2001	d	1999
vii	In _____, glucose molecules goes through oxidation –reduction reaction reactions to release energy in the form of ATP						
a	Respiration	b	Cellular respiration	c	An-aerobic respiration	d	Both a and b
viii	_____convinced the scientific community that all fermentations are the results of microbial activity						
a	Lan Wilmut	b	Louis Pasteur	c	Lamarck	d	Darwin
ix	Wheat dough is fermented by						
a	Only S. cerevisiac	b	S. cerevisiac along lactic acid bacteria	c	Only lactic acid and bacteria	d	None of these
x	Ethanol is prepared by						
a	Aspergellus	b	Sacchomaromyces +bacillus	c	Saccharmyces	d	Bacillus
xi	E.coli bacterium was created in						
a	1970	b	1960	c	1966	d	1977
xii	_____is used to dissolve blood clots .						
a	Urokinase	b	Interferons	c	Bothe a and b	d	None of above

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**Section - B**

**Q. No.2:- Attempt any eleven parts from the following. The answer of each part should not exceed 3 to 4 lines.**

- i. Define biotechnology.**
- ii. What are the products of two types of carbohydrates fermentation?**
- iii. Name any three industrial produced?**
- iv. What basic steps a genetic engineer adopts during the manipulation of genes?**
- v. Describe alcoholic fermentation and lactic acid fermentation by the help the of flow chart?**
- vi. Write a note on continuous fermentation?**
- vii. How single cell proteins are produced?**
- viii. Writer down objectives of genetic engineering.**
- ix. Write role of biotechnology in the field of medicines?**
- x. What is a single-cell product?**
- xi. Define the term genetic engineering and transgenic?**
- xii. Write down functions of interferon’s and urokinase?**
- xiii. In biotechnology , what is mean by genetically modified organisms (GMO), How it is made?**
- xiv. What are beverage products.**

**Section – C**

**Note: Attempt any two questions. All question carry equal marks.**

- Q. No.3:- Define fermentation? Describe carbohydrate fermentation?**
- Q. No.4:- Write in detail the achievements of genetic engineering.**
- Q. No.5:- What are single cell proteins? Write in detail.**

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