

Note:- You have four choices for each objective type question as A,B,C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero in that question.

Q. 1	QUESTIONS	(A)	(B)	(C)	(D)
1.	When the complete map of human genome was published?	2002	2001	2005	1902
2.	E-Coli bacterium was made in.	1970 A.D.	1977 A.D.	1975 A.D.	1980 A.D.
3.	The correct match for the Fermentation product and organism involved is.	Formic acid-saccharomyces	Ethanol-Saccharomyces	Ethanol-Aspergillus	Glycerol-Aspergillus
4.	To preserve fruits, vegetables and pickles we add.	Water and yogurt	Salt and acid	Flour and salt	Onion and garlic
5.	When was the work on Genetic Engineering started?	1930	1940	1944	1970
6.	Aspirin belongs to the group of drugs.	Synthetic drugs	Drugs from plant and fungi	Drugs from minerals	Drugs from Bacteria
7.	The drugs used to reduce the pain are called.	Analgesics	Antiseptics	Antibiotics	Sedatives
8.	The medicine reduces the pain	Aspirin	Quinine	Chloroquinne	Resochin
9.	Reduce the possibility of infection on skin.	Disinfectants	Antibiotics	Antiseptics	Digitalis
10.	The number of drug addicts in Pakistan's currently to be about.	200000	300000	400000	500000
11.	Which of the following addictive drug obtained from opium?	Morphine	Marijuana	Mescaline	Psilocin
12.	Penicillin is discovered by.	Joseph lister	Edward Jenner	Alexander Flemming	Bu Ali Sina

A B C D

A B C D

A B C D

A B C D

A B C D

1	(A) (B) (C) (D)	4	(A) (B) (C) (D)	7	(A) (B) (C) (D)	10	(A) (B) (C) (D)	13	(A) (B) (C) (D)
2	(A) (B) (C) (D)	5	(A) (B) (C) (D)	8	(A) (B) (C) (D)	11	(A) (B) (C) (D)	14	(A) (B) (C) (D)
3	(A) (B) (C) (D)	6	(A) (B) (C) (D)	9	(A) (B) (C) (D)	12	(A) (B) (C) (D)	15	(A) (B) (C) (D)

نوٹ: معروضی سوال نامے کو توجہ سے پڑھیں اور ہر MCQ کی درست آپشن A, B, C, D کو پین کی سیاہی یا مارکر سے اس طرح پُر کریں کہ سیاہی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔

(PART – I)

2. Write to short answers to any FIVE (5) questions: 10
- (i) Define Glycolysis.
 - (ii) What is meant by Fermentation?
 - (iii) State Alcoholic Fermentation.
 - (iv) Write two applications of Fermentation.
 - (v) Define fermenter. Give its two ways.
 - (vi) What is continuous fermentation?
 - (vii) What is Recombinant DNA?
 - (viii) What is recombinant DNA technology?
3. Write to short answers to any FIVE (5) questions: 10
- (i) Write four achievements of Genetic Engineering.
 - (ii) How biotechnology has helped us in improving the environment?
 - (iii) Write any two characteristics of transgenic animals.
 - (iv) Is inherited disease hemophilia curable? If yes then how?
 - (v) How the micro organisms produce single cell protein?
 - (vi) What is drug? Give one example of synthetic drug.
 - (vii) Define synthetic drug with example.
 - (viii) Write the names of drugs obtained from animals.
4. Write to short answers to any FIVE (5) questions: 10
- (i) Difference between Pharmacology and Pharmacy.
 - (ii) Write about some drug obtained from plants.
 - (iii) Differ analgesic and antibiotics.
 - (iv) What is sedatives?
 - (v) Difference between Narcotics and Hallucinogens.
 - (vi) What is meant by Social Stigma?
 - (vii) Describe Tetracyclines.
 - (viii) Whtr is the common method of administering vaccines?

(PART – II)

Note:- Attempt any TWO Question.

5. (a) Explain Alcoholic fermentation and Lactic acid fermentation. 4
- (b) Write down any four achievement of genetic engineering. 5
6. (a) Differentiate between medicinal and addictive drugs. 4
- (b) Discuss the application of fermentation. 5
7. (a) What is meant by single cell protein? What steps world has taken in this regard. 4
- (b) Describe drug addiction and associated problem. 5



علم كدنيا