



**ATOMIC ENERGY CENTRAL SCHOOL 4**

**MUMBAI**

**UNIT IX**

**CHAPTER 12**

**BIOTECHNOLOGY AND ITS APPLICATION**

**WORKSHEET**

**MODULE – 2/3**

**PREPARED BY**

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## Answer the following Questions:

1. Name the diagnostic technique based on antigen-antibody reaction.
2. Name diseases where PCR is used for suspected cases too.
3. Expand the abbreviation GMO, PCR, ELISA, ADA.
4. From where the insulin was extracted in earlier days?
5. Which organism is used for synthesis of chains of insulin?

## Multiple choice questions:

1. How many recombinant therapeutics are being marketed now in India.

- a) 8                      (b) 12                      (c) 15                      (d) 30

2. During the processing of proinsulin into the mature insulin:

- a) C-peptide is added to proinsulin
- b) C-peptide is removed from proinsulin
- c) B-peptide is added to proinsulin
- d) B-peptide is removed from proinsulin

3. Which of the following companies started selling humulin in the year 1983?

- a) Eli Lilly      (b) Genetech      (c) GEAC
- (d) None of these

4. Adenosine deaminase deficiency can be permanently cured by which of the following methods?

- a) Bone marrow transplantation
- b) Enzyme replacement therapy
- c) Gene therapy at the early embryonic stages

d) all of these

5. Early detection of a disease is possible by:

a) PCR            (b) gene therapy            (c) rDNA technology

and ELISA

d) both a and c

## ACKNOWLEDGEMENT

The following text books were referred to complete the Worksheet:

1. MTG NCERT at your finger tips Class –XI and XII
2. Self generated questions taking help of Truman’s Elementary Biology Part – 2