

# **MCQs WITH ANSWER (RESTRICTION ENZYMES)**



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# **MCQS WITH ANSWER (RESTRICTION ENZYMES)**



**1) Who discover restriction enzymes**

- A) Watson and crick
- B) Jacob and monad
- C) Nathan ,Arber and smith
- D) Boyer and Cohen

Answer: c

**2) Why does the restriction phenomenon in bacteria naturally occur?**

- a) For efficient cloning
- b) Bacteria produce an enzyme
- c) Destruction of bacterium's own DNA
- d) For survival

Answer: b

### **3) Restriction enzymes are enzymes**

- a) Capable of cutting DNA molecules
- b) Capable of adding nucleotides to the 3'OH end
- c) Capable of restricting protein synthesis
- d) Capable of joining DNA molecules

Answer : A

**4) Restriction enzymes are also called**

- a) Molecular knives
- b) Molecular scissors
- c) Molecular scalpels
- d) All of these

Answer: D

**5) The sequence reorganised by the restriction enzyme to cut the DNA is called**

A) Recognition site

B) Restriction site

C) Both A and B

D) Cleavage site

Answer : C

**6) Which of the following are true regarding restriction enzyme**

a) Restriction enzyme are used to cut DNA molecule

b) Restriction enzyme are used to construct restriction map

c) Restriction enzymes are used in RFLP

d) All of these

Answer : d

**7) Which of the following ions are required for the activity of type II restriction enzymes**

a)  $\text{Ca}^{2+}$

b)  $\text{Mg}^{2+}$

c)  $\text{Cl}^{2+}$

d)  $\text{Mn}^{2+}$

Answer : b

**8) Which type of restriction endonucleases is used most in genetic engineering?**

- a) Type I
- b) Type II
- c) Type III
- d) Type IV

Answer: b

**9) How many classes of restriction enzymes are there?**

a) 2

b) 1

c) 3

d) 4

Answer: c

**10)The restriction endonuclease PvuI (isolated from Proteus Vulgaris) cuts DNA at which position?**

a) Hexanucleotide CGATCG

b) Random position

c) Towards the end

d) Hexanucleotide CAGCTG

Answer: a

**11. The restriction endonuclease AluI is isolated from which microbe?**

- a) Proteus Vulgaris
- b) Staphylococcus Aureus
- c) Arthrobacter Luteus
- d) Haemophilus Influenzae

Answer: c

THANK YOU