

St. Mary's PG College Vidisha  
Objective type questions  
Class-BSc 3 year

1. The gene formed by the joining of DNA segments from two different sources are called as
  - a) recombinant gene
  - b) joined gene
  - c) both a and b
  - d) chimaeric gene
  
2. Which of the following enzyme is used to cut DNA molecule in rDNA technology
  - a) ligase
  - b) phosphatase
  - c) ribonuclease
  - d) restriction enzymes
  
3. Who created the first rDNA molecule
  - a) Nathan, Arber and Smith
  - b) Watson, Crick and Wilkins
  - c) Boyer and Cohen
  - d) Paul Berg
  
4. Gene cloning refers to the
  - a) production of large number of copies of the gene being cloned
  - b) production of asexual progeny from a single individual or a cell
  - c) both a and b
  - d) none of these
  
5. The mechanism of intake of DNA fragments from the surrounding medium by a cell is called
  - a) transformation
  - b) transduction
  - c) both a and b
  - d) conjugation

Mr Rajesh kaushal  
Biotech department  
St mary's PG College  
Vidisha

St. Mary's PG College Vidisha  
Objective type questions  
Class-BSc 3 year

6. The plasmid used by Cohen and Boyer for their transformation experiment was

- a) pSC 101
- b) PUC 17
- c) pBR 322
- d) E.coli plasmids

7. The DNA segment to be cloned is called

- a) gene segment
- b) DNA fragment
- c) DNA insert
- d) all of these

8. The DNA molecule to which the gene of insert is integrated for cloning is called

- a) carrier
- b) transformer
- c) vector
- d) none of these

9. Restriction enzymes are also called as

- a) biological scissors
- b) molecular scalpels
- c) molecular knives
- d) all of these

10. Who discovered restriction enzymes

- a) Nathan, Arber and Smith in 1970
- b) Watson, Crick and Wilkins in 1970
- c) Boyer and Cohen in 1970
- d) Paul Berg in 1975

Mr Rajesh kaushal  
Biotech department  
St mary's PG College  
Vidisha

Ans- 1d, 2d, 3d, 4a, 5a, 6a, 7d, 8c, 9c, 10a.