

B.Sc. (Part-III) (CBCS Pattern) Sem-VI
USCZOT14 - DSE - Core Paper-XIV - Zoology Paper-II
Animal Biotechnology

P. Pages : 1

Time : Three Hours



GUG/W/22/13371

Max. Marks : 50

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- Notes :
1. All questions are compulsory.
 2. All question carry equal marks.
 3. Draw well labelled diagram wherever necessary.

1. Describe in detail animal tissue culture methods. 10

OR

 - a) Physical sterilization techniques. 5
 - b) Types of Media 5
2. Describe in detail polymerase chain reaction. 10

OR

 - a) Cosmid 5
 - b) Southern blotting. 5
3. Describe in detail various applications of transgenic animals. 10

OR

 - a) Stem cell gene transfer 5
 - b) Conservation of genetic resources 5
4. Describe in detail production of monoclonal antibody by hybridoma technology. 10

OR

 - a) Recombinant DNA for human growth hormone. 5
 - b) Molecular diagnosis of sickle cell anemia. 5
5. Write four or five lines on the following **any ten**. 10
 - i) Pasteurization
 - ii) Cell line
 - iii) Bleaching
 - iv) λ - phase
 - v) BAC
 - vi) DNA sequencing
 - vii) Artificial insemination
 - viii) Retrovirus
 - ix) Electroporation
 - x) Cystic fibrosis
 - xi) In vivo
 - xii) Gene therapy
