

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

P. Pages : 1

Time : Three Hours



GUG/S/25/13371(S)

Max. Marks : 50

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

1. Describe Physical and chemical sterilization techniques. 10

OR

 - a) Scope of animal cell and tissue culture.
 - b) Scope of biotechnology
2. Write in detail on Western blotting. 10

OR

 - a) Cloning vectors: Plasmids & Cosmids.
 - b) PCR
3. Write in detail direct gene transfer methods in Animals. 10

OR

 - a) Production of pharmaceuticals.
 - b) Animal clones.
4. Describe in detail the molecular diagnosis of genetic diseases. 10

OR

 - a) Gene therapy and its types
 - b) Human growth hormones.
5. Write in 4 or 5 lines each of the following **any ten**. 10
 - a) Primary culture
 - b) Master cell bank
 - c) Advantages of tissue culture
 - d) Primer
 - e) BAC
 - f) Annealing
 - g) Transfection
 - h) Intratubal Insemination
 - i) SCNT
 - j) Cystic fibrosis
 - k) Microinjection
 - l) Hybridoma
