

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**

Max. Marks : 50

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1. Write in detail the types of media for animal cell & tissue culture. **10**  
**OR**  
Write notes on:  
a) Scope of biotechnology.  
b) Chemical Sterilization.
2. Write a detail account on sanger method of DNA sequencing. **10**  
**OR**  
Write notes on:  
a) Cloning vectors-Bacterial Artificial Chromosome (BAC)  
b) DNA Finger Printing.
3. Describe vector based gene transfer. **10**  
**OR**  
Write notes on:  
a) Transgenic Animals.  
b) Artificial insemination.
4. Explain hybridoma technology and production of monoclonal antibody. **10**  
**OR**  
Write notes on:  
a) Sickle cell anemia.  
b) Recombinant DNA in medicines.
5. Write **any ten** questions in three to four lines only. **10**
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|----------------------------------------|---------------------------|
| i) Autoclave.                          | ii) Primary cell culture. |
| iii) Bleaching.                        | iv) BAC.                  |
| v) Northern blotting.                  | vi) PCR.                  |
| vii) Retrovirus.                       | viii) Milk production.    |
| ix) Conservation of Genetic resources. | x) Cystic Fibrosis.       |
| xi) HAT medium.                        | xii) Gene therapy.        |

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