

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

P. Pages : 1

Time : Three Hours



GUG/W/24/13371

Max. Marks : 50

-
- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answers with suitable diagrams.

- | | | |
|-----------|---|---------------------|
| 1. | Describe chemical sterilization techniques. | 10 |
| | OR | |
| | a) Advantages of tissue culture. | 5 |
| | b) Scope of animal cell culture. | 5 |
| 2. | Write a note on polymerase chain reaction. | 10 |
| | OR | |
| | a) Plasmids. | 5 |
| | b) cDNA libraries. | 5 |
| 3. | Give a brief account on applications of Transgenic animals. | 10 |
| | OR | |
| | a) Artificial insemination. | 5 |
| | b) Retrovirus gene transfer. | 5 |
| 4. | Describe Gene Therapy and its types. | 10 |
| | OR | |
| | a) Monoclonal antibody. | 5 |
| | b) Sickle cell anaemia. | 5 |
| 5. | Write answers in 2-3 lines any ten. | 10 |
| | a) Human Gene Therapy. | |
| | b) Moist heat sterilization. | |
| | c) Antibiotics. | d) Cosmids. |
| | e) Gel electrophoresis. | f) λ Phage |
| | g) Microinjection. | h) AI |
| | i) DNA Fragment | j) Thermal Cyclers. |
| | k) HGH | l) Hybridoma |
