

2016

ANIMAL CELL SCIENCE AND
TECHNOLOGY

Time : Two Hours] [Maximum Marks : 40

Answer any four Questions. The questions are of equal value.

1. Describe the sterilization procedures of glassware and other accessories required in animal tissue culture.
2. Write short notes on the following :
 - (a) Hollow-fibre reactor
 - (b) Three-dimensional culture
3. Write an essay on cryopreservation and evaluation.
4. Write short notes on the following :
 - (a) Cell transformation
 - (b) Applications of stem cells
5. Trace the steps involved in *in-vitro* fertilization.

6. Write short notes on the following :
 - (a) Micro manipulation
 - (b) Transfection of animal cell lines
7. Give an account of animal biotechnology for production of blood products.
8. Write short notes on the following :
 - (a) Molecular farming
 - (b) Cell culture based vaccines