

2015
(December)

Time : 2 hours

Full Marks : 40

The questions are of equal value.

*Answer any **four** questions.*

(ANIMAL CELL SCIENCE AND TECHNOLOGY)

1. Describe the laboratory requirements and general techniques in animal cell culture.
2. Write short notes on the following :
 - (a) Growth kinetics
 - (b) Cell transfection
3. Give an account of stem cell and their applications.

4. Write short notes on the following :
 - (a) Cryopreservation
 - (b) Cytotoxicity
5. What are the steps involved in the production of transgenic animals ? Do you support or oppose ? Give reasons.
6. Write short notes on the following :
 - (a) Embryo transfer technology
 - (b) Animal viral vectors
7. Write an essay on tissue engineering.
8. Write short notes on the following :
 - (a) Somatic cell genetics
 - (b) Hybridoma technology

