

TDC Even Semester Exam., 2019

BIOTECHNOLOGY

(Honours)

(4th Semester)

Paper No. : BTCH-403

(**Animal Biotechnology**)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **all** questions

1. What are special secondary metabolites?
Discuss the process of production of growth
hormones. 2+5=7

OR

2. Write short notes on : 3½×2=7
- (a) Interferon
- (b) Overproduction and processing of
proteins

J9/1426

(Turn Over)

3. Define monoclonal antibodies. Describe the
process of production of monoclonal
antibodies. 1+6=7

OR

4. Discuss in brief the role of growth factor in
promoting proliferation of animal cells. 7
5. What do you mean by bioreactors? Mention
their types and different components. 2+5=7

OR

6. Discuss the steps involved in *in-vitro*
fertilization (IVF). Add a note on embryo
transfer in cattle. 5+2=7
7. Define transgenics. Discuss the various
methods of gene transfer in animals. 2+5=7

OR

8. Define gene therapy. Discuss the steps
involved in gene therapy. 2+5=7

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(Continued)

(3)

9. Write short notes on any *two* of the following : $3\frac{1}{2}\times 2=7$

(a) Cryopreservation

(b) Transfection

(c) Molecular biological techniques for rapid detection of genetic diseases

(d) Transgenic sheep
