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Total Number of Pages : 1

AR-18

M. Sc

M. Sc 3<sup>rd</sup> SEMESTER REGULAR EXAMINATIONS, NOV/DEC 2019-20

Subject code: III.3

Subject: Animal Science and Technology

Time: 2 Hours

Max Marks: 40

The figures in the right hand margin indicate marks.

Q.1 Answer any two of the following:

(2×4=8)

- a Discuss types of sterilization techniques employed in cell culture
- b Give a note on hollow fiber reactor
- c Briefly write a note on maintenance of cell culture.
- d Write a note on In-vitro fertilisation

Or

Answer all questions from the following

[4 x 2 =8]

- a Name the methods used for cell viability studies.
- b What is cryopreservation?
- c Which viral vector is used for gene transfer into cell lines?
- d Give two examples of therapeutic proteins.

2. Answer all Questions:

- a Discuss in brief the equipments required in setting up of animal cell culture laboratory. 16

OR

- b Discuss in brief the role of various media employed in animal cell culture. 16

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- a Discuss briefly on embryo transfer technology with its application 16

OR

- b Discuss the application of animal Cell Culture in medical research 16