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M.Sc.—Biotech-IIIS (3.3)

2019

(January)

Time : 2 hours

Full Marks : 40

Answer any four questions

All questions carry equal marks

Candidates are required to answer in their own words
as far as practicable

**(ANIMAL CELL SCIENCE AND
TECHNOLOGY)**

1. Describe the sterilization procedures for animal cell culture.
2. Write short notes on the following :
 - (a) Serum
 - (b) Cell staining.

(Turn Over)

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3. What is Cell Culture ? Explain the procedures for tissue degradation.
4. Write short notes on the following :
 - (a) Fibroblast
 - (b) Three dimensional culture.
5. Describe the scope and limitations of maintenance of cell culture.
6. What is cryopreservation and describe its significance in animal cell culture science.
7. Write short notes on the following :
 - (a) Transfection
 - (b) Viral vector.
8. What is hybridoma technology and describe the mechanism of monoclonal antibody production.

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BA—100