

Roll No.

Y – 3197

M.Sc. (Bio-Technology) (Second Semester) EXAMINATION,

May/June-2021

Paper – 204

A-ENVIRONMENTAL BIOTECHNOLOGY B-ANIMAL

BIO-TECHNOLOGY

Time : Three Hours

Maximum Marks : 85 (For Regular Students)

Minimum Pass Marks : 29

Maximum Marks : 100 (For Private Students)

Minimum Pass Marks : 34

Note—Attempt *all* questions.

Unit-I

1. What is bioremediation ? Write on the use of genetically modified microbes in bioremediation. 17/20

Unit-II

- 2 (a) What do you mean by xenobiotics ? Explain xenobiotic degradation. 8½/10
(b) Vermicomposting and its advantages. 8½/10

Unit-III

3. Explain Animal cell cultures under the following heads : Difference between primary and secondary cell culture, Adherent and suspension cell cultures, cell viability, Cryopreservation. 17/20

Unit-IV

4. Write a note on media used in animal cell cultures. Explain the role of various media components used in Animal cell cultures maintenance. 17/20

Unit-V

5. Describe/Explain in detail (any *two*)— 17/20
(a) Cell culture based vaccines.
(b) Cell cloning.
(c) Transgenic Animals.
(d) Measurement of Phagocytic activity.

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