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Exam. Code : 107406 Subject Code : 1878

B.Sc. (Biotechnology) 6th Semester BT-3 ANIMAL BIOTECHNOLOGY

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Section A is compulsory. Section B : Attempt any 5 questions. The answer should not exceed two pages. Section C : Attempt any 2 questions. The answer should not exceed five pages.

SECTION—A (1×8=8)

(Compulsory) Write a brief account of the following :

- 1. W1 38, IMR 90 cell line origin.
- 2. Characteristic features which are marked for a cell line when they are raised
- 3. Expression vector
- 4. Microinjection
- 5. Nunc Factories
- 6. Microcarriers
- 7. Genetically engineered blood products in the market.
- 8. Need to raise transgenic cattle.

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SECTION—B (5×4=20)

- 1. Characteristic features and application of HEK 293 and C7.
- 2. How to raise organ culture ?
- 3. What is the need of animal cells in expression of proteins ?
- 4. What are promoters and their function in transgenics ?
- 5. Give the methodology of Monoclonal antibodies production.
- 6. Describing the characteristic features of embryonic stem cells give their applications.
- 7. Explain the methodology of embryo transfer technology.
- 8. Write a note on Transgenic goats.

SECTION—C $(6 \times 2 = 12)$

- 1. Explain differentiation, dedifferentiation and redifferentiation with an example.
- 2. Compare and contrast the calcium phosphate precipitation and DEAE dextran mediated transfection method.
- 3. Write an account on various types of Bioreactors for the scale up of suspension cultures.
- 4. How genetic engineering and animal cell culture made it feasible to raise vaccines for viral infections ? Explain with one example.

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