



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025

Semester-II

Class : I PG

Major : Biotechnology

Max. Marks: 60

Time: 2 Hours

23MBTC08 Animal Biotechnology

CO1 : Apply the knowledge of cell culture techniques in the production of biological

CO2: Examine the benefits of animal transgenesis

CO3: Appreciate the benefits of therapeutic cloning to treat human diseases

CO:4 Review the benefits and challenges of animal cloning

CO:5 Explore the benefits of stem cell therapy in health and medical fields

CO:6 Adopt suitable integrated pest management strategies to significantly reduce the use of pesticides

Part – A

(6 x 1 = 6)

Choose the correct answer

1. What is the primary role of albumin in serum for animal cell culture? CO1 K-3
a. Promotes cell attachment b. Carries lipids, vitamins, and hormones into cells
c. Acts as a buffer d. Provides energy sources
2. The limited replicative capacity of human cells in culture is called CO1 K-2
a. Hayflick effect b. Brownian movement
c. passage number d. contact inhibition
3. Disaggregation of what type of cells employs collagenase enzyme? CO2 K-1
a. fibroblasts b. epithelial cells
c. embryonic tissue d. necrotic cells
4. Which of the following is the structural fiber in cell culture system CO2K2
a. Collagen b. elastin
c. Fibronectin d. both a and b
5. At what temperature are cell lines typically stored during cryopreservation? CO3K1
a) -20°C b) -80°C c) -196°C d) 0°C

