

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

MSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch - BIOTECHNOLOGY

ANIMAL CELL BIOTECHNOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module No.	Q No.	Question	K Level	CO
1	11.a.	Write short note on balanced salt solution. (OR)	K2	CO1
	11.b.	Discuss the methods for sterilization and decontamination.		
2	12.a.	Discuss the behaviors of Transformed cells. (OR)	K3	CO2
	12.b.	Explain DNA profiling.		
	13.a.	Write about Embryo Transfer method. (OR)		CO3
3	13.b.	Write about the Animals models used for human genetic diseases.	K3	
	14.a.	What are stem cells? Write Sources of Stem Cells. (OR)	CO4	
	14.b.	Describe the role of feeder layer in stem cell culture.		
4	15.a.	Write about Bone Remodeling. (OR)	K4	CO5
	15.b.	Discuss about disposable bioreactor.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

Module No.	Q. No.	Question	K Level	CO
1	16	What is cell culture? Explain the types of cell culture.	K4	CO1
2	17	Describe the characterization of cultured cells by chromosomal analysis.	K4	CO2
3	18	Describe Production of pharmaceutical proteins by transgenic animals.	K5	CO3
4	19	Give detail notes on epigenetics modification.	K5	CO4
5	20	Explain about mode of Bone marrow transplantation.	K6	CO5

Z-Z-Z

END