

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – ZOOLOGY

BIOTECHNOLOGY - II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

Cont.

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a How do you establish a primary cell culture?
OR
b What are different cell lines?
- 12 a Explain the blood factor VIII deficiency.
OR
b What is a transgenic animal? Explain it with one example.
- 13 a How do you prepare callus tissue culture technique?
OR
b Describe the somatic hybridization with an example.
- 14 a Explain the microbial products and their applications.
OR
b Summarise the uses of resistance and side effects in antibiotics.
- 15 a How do you calculate nutritional value? Explain.
OR
b Narrate the methods of cell immobilization and its applications in biotechnology.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Enumerate the requirements in performing animal cell culture maintenance.
- 17 Elucidate the desirable properties and function of molecular markers.
- 18 Discuss the transgenic plants and their uses.
- 19 Differentiate the primary metabolites and secondary metabolites.
- 20 Point out the importance and application of enzymes in biotechnology.

Z-Z-Z

END