

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Sixth Semester)

Branch - ZOOLOGY

BIOTECHNOLOGY - II

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

Explain / Define:

- 1 Collagenase.
- 2 Hela cell line.
- 3 Hardening.
- 4 Gifted Tilapia.
- 5 Callus.
- 6 Cybrids.
- 7 Fed-batch culture.
- 8 Erythromycin.
- 9 Ribozyme.
- 10 Pit method.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain the isolation of explants.
OR
b Enumerate the steps in embryonic stem cell culture.
- 12 a Write an account on Erythroprotein.
OR
b State the uses of VNTRs.
- 13 a State applications of Tissue culture.
OR
b Explain the ways for selection of Hybrid protoplasts.
- 14 a Give an account on the stages of Downstream process in fermentation.
OR
b Write a short note on Cryoprotective agents.
- 15 a State the impact of Biofertilizers to soil.
OR
b Give an account on analytical applications of the enzymes.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 1-6 What is cell line? Enumerate, the salient features of it?
- 17 Describe the stages and applications of RFLP.
- 18 Explain how do transgenic plants-resistance to fungi and bacteria.
- 19 Discuss the stages of cryopreservation performed in the animal cell culture in the laboratory