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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019 (Sixth Semester)

Branch- ZOOLOGY

BIOTECHNOLOGY - II

Time : Three Hours

SECTION-A (20 Marks)

Answer ALL questions ALL questions carry EQUAL marks (

(10 x 2 = 20)

Maximum: 75 Marks

Explain / Define :

- 1 Cell line.
- 2 Natural Media.
- 3 Transgenic sheep.
- 4 RAPD.
- 5 Callus.
- 6 Protoplast.
- 7 Cryopreservation.
- 8 Antibiotics.
- 9 Spirulina.
- 10 Immobilisation.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 5 = 25)$

11 a Write a short note on history of animal cell culture.

OR

b Explain the primary cell culture.

12 a Write a short note on erythropoietin.

OR

- b Explain the major steps involved in RFLP analysis.
- 13 a Describe the explant culture method.

OR

b Write a short note on somatic hybridization.

14 a Write a note on basic design of a fermenter.

OR

b Explain - Vitamin B12.

15 a Write a note on single cell protein.

OR

b Describe the ideal characteristics of single cell protein.

SECTION - C 130 Marks!

Answer any THREE Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- 16 Write an essay on cultivation of animal cells in Bioreactors.
- 17 Write an essay on RAPD analysis.
- 18 Explain the isolation of protoplast and fusion of protoplast.
- 19 Explain the products of primary metabolites.
- 20 Write an essay on yeast as SCP.