

BSc DEGREE EXAMINATION MAY 2018
(Sixth Semester)

Branch- **ZOOLOGY**

BIOTECHNOLOGY - II

Time : Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks!

Answer **ALL** questions

(10x2 = 20)

- 1 Eagles' medium.
- 2 Finite cells.
- 3 Haberlandt.
- 4 tPA.
- 5 Redifferentiation
- 6 bxn gene.
- 7 Log phase.
- 8 Rapid freezing.
- 9 Azolla.
- 10 Liposomes.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

11a Write an account on monolayer culture.

OR

b Explain the structure of Hollow fibre bioreactor.

12 a State any five applications of RAPD.

OR

b State the uses of meristem culture.

13 a Enumerate the different stages of micro propagation.

OR

b State the applications of Cybrids.

14 a Explain the stages of fermentation.

OR

b Give an account on primary metabolites with suitable examples.

15 a Write a short note on phosphate biofertilizer.

OR

b Give an idea of nutritional values of spirulina.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Explain about the disaggregation by collagenase method.
- 17 Explain about the ethical implications of transgenic animals.
- 18 Describe about the protoplast fusion with suitable examples.
- 19 Write an essay on microbial production of cyanocobalamine.
- 20 Illustrate the different methods of enzyme immobilization.

Z-Z-Z

END