

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2017  
(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)

- 1 Define cell culture.
- 2 Write about continuous culture.
- 3 Define RFLP.
- 4 Explain erythropoietin.
- 5 Define explants culture.
- 6 What is cold tolerant plant?
- 7 What are the uses of ethanol?
- 8 Define primary metabolites.
- 9 Define encapsulation.
- 10 Write down the advantages of single cell protein.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write a short note on cell lines. •  
OR  
b Explain the cell culture media. .
- 12 a Discuss the major steps involved in RAPD analysis.  
OR  
b Give a brief account on single sequence repeats and its uses.
- 13 a Describe the herbicide resistant plants.  
OR  
b Explain the enzymatic method of protoplast fusion.
- 14 a Describe the methods adopted to improve bacterial strains.  
OR  
b Comment on citric acid production. > -
- 15a “Spirulina as single cell protein” - Substantiate.  
OR\*  
b Enumerate the therapeutic applications of enzymes.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Describe in detail the cell culture techniques.
- 17 Give a detailed account on transgenic mice. \*
- 18 Write an essay on protoplast fusion.
- 19 Discuss in detail the cryo preservation of animal cell.
- 20 Write an essay on biofertilizers. •

**Z-Z-Z**

**END**