

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018  
(Second Semester)

Branch –FOODS AND NUTRITION

**CORE ELECTIVE – I : BIOTECHNOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 1 a Write on characteristics of an ideal cloning vector.  
OR  
b Trace the role of enzymes used in gene cloning.
- 2 a Explain the different types of fermentation.  
OR  
b How can the anaerobic fermentation process be applied in biotechnology?
- 3 a Explain the steps followed in production process of lactic acid.  
OR  
b Explain the production of antibiotics.
- 4 a Give an account of uses of enzymes in food and beverage industry.  
OR  
b Explain the concept and principle of GM foods.
- 5 a Write a note on plat tissue culture media.  
OR  
b Explain the applications of DNA technology.

**SECTION -B (45 Marks)**

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Explain the types of vector.
- 7 Enumerate the application of fermentor.
- 8 Explain the production of phenyl alanine & alcohol.
- 9 Elaborate the basic concept and principles of food nanotechnology.
- 10 Write on micropropagation of plants.

Z-Z-Z

END