18FPB39

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – **FOOD PROCESSING TECHNOLOGY**

FOOD BIOTECHNOLOGY

Time: Three Hours Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 x 1 = 10)

1 Which of the following produces citric acid?
(i) Aspergillus (ii) Pseudomonas
(iii) Saccharomyces (iv) Clostridium

2 The DNA fragments have sticky ends due to
(i) Endonuclease (ii) Unpaired bases
(iii) Calcium ions (iv) Free methylation

3 The human genome project was launched in the year
(i) 1980 (ii) 1973 (iii) 1990 (iv) 1989

4 The vaccines prepared through recombinant DNA technology are
(i) Third generation vaccines (ii) First-generation vaccines
(iii) Second-generation vaccines (iv) None

5 The first transgenic plant to be produced is
(i) Brinjal (ii) Tobacco (iii) Rice (iv) Cotton

6 What compound that is produced by lactobacillus required for the production of yoghurt, sauerkraut, and sour dough
(i) lactic acid (ii) Carbon di oxide (iii) Yeast (iv) Flour

7 Enzyme used to coagulate milk during cheese making is
(i) Chymosin (ii) Rennet (iii) Trypsin (iv) Amylase

8 Which of the following microorganism is used in alcoholic fermentation?
(i) Pseudomonas (ii) Aspergillus
(iii) Sachromyces (iv) Pencillium

9 The production of bio ethanol is by fermenting the _____ and starch components.
(i) Acid (ii) Milk (iii) Sugar (iv) Alcohol

10 The percentage of carbondioxide in the bio methane is _____
(i) 30-40 (ii) 32-43 (iii) 35-45 (iv) 55-60

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11 a Show the scope and importance of biotechnology.

OR

b Produce the functions DNA.

12 a Outline the steps involved in gene cloning.

OR

b Explain the Application of r-DNA technology in Food Production & Processing.

13 a Bringout the importance of single cell protein.

OR

b Enzyme is used as a biocatalyst in food industry- justify.

14 a Produce the applications of biotechnology.

OR

b Enumerate the production of GM rice.

15 a Show the formation of bio-films and its purpose.

OR

b Outline the use of nanotechnology in food industry.

SECTION - C (30 Marks)

Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Enzymatic hydrolysis of protein is important for fabrication of different foods-Justify it.

17 Highlight the uses of restriction endonuclease.

18 Outline the production of amylase and protease.

19 Elucidate the preparation of fermented sausage of transgenic fish.

20 Enumerate the industrial production of bio-ethanol.

Z-Z-Z END