PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2022

(Third Semester)

Branch - FOOD PROCESSING TECHNOLOGY

| | | FOOD MICE | ROBIOLOGY | |
|---|--|---|---|---------------------|
| Γime | e: Th | nree Hours | Maximum: 50 | Marks |
| | | Answer AI | A (5 Marks) LL questions arry EQUAL marks | $(5 \times 1 = 5)$ |
| 1 | (i) | , , , , , , | content in yeast cells? (ii) 10-20 (iv) 45 | |
| 2 | (i) | | s associated with wine (ii) leuconostoc (iv) Salmonella | |
| 3 | (i) | | is (ii) packaging defect (iv) reaction with Co ₂ | |
| 4 | Which microbe serves as a indicator for fecal contamination in water? (i) Clostridium (ii) E.coli (iii) Salmonella spp. (iv) Streptococcus | | | |
| 5 | (i | Aflatoxin is produced by i) Aspergillus spp iii) E.coli | (ii) Acetobacter spp(iv) Clostridium | |
| | | Answer A | <u>- B (15 Marks)</u> LL Questions Carry EQUAL Marks | $(5 \times 3 = 15)$ |
| 6 | a | Illustrate the structure of yeast OR | with a neat labeled diagram. | • |
| | b | Sketch out the 8 beneficial mi industry. | crobial genera with its applic | ations in food |
| 7 | a | Explain factors influencing for OR | od spoilage and its principles. | |
| | b | Recall the effect of microorga | | |
| 8 a Give the microbiological assay of water. OR | | of water. | | |
| | b | Infer on the types of water. | : - | |
| 9 | a | Elucidate the various medium foods. OR | | |
| | b | Explain the immunological me | ethod to detect microbes prese | nt in foods. |

Sketch out the types of food borne illness.

OR
Discuss the symptoms and Foods involved in Botulism.

10 a

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Explain the morphology, growth and reproduction of Bacteria.

OR.

- b Elaborate on the factors influencing microbial growth in foods.
- 12 a Illustrate the contamination and spoilage of milk and its products with its preventive measures.

OR

- b Elucidate on the contamination & spoilage of egg and poultry with a preventive measures.
- 13 a Give the steps involved in the processing of bottled drinking water with a flowchart.

OR

- b Discuss the standards for drinking packaged /bottled water.
- 14 a Enumerate the microbial standards and limits for cereals and pulses & it's by products.

OR

- b Sketch out the thermal inactivation of microbes in detail.
- 15 a Discuss about the food borne diseases caused by the *Bacillus spp* along with its symptoms and prevention.

OR

b Explain the effect of Salmonella spp. & E.coli in human health with its prevention.

Z-Z-Z

END