

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024
(Fifth Semester)

Branch – NUTRITION, FOOD SERVICE MANAGEMENT & DIETETICS

FOOD MICROBIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Oxidation reduction potential of microbes is expressed in
(i) ohm (ii) pascal
(iii) millivolts (iv) micro grams
- 2 Find the term to be Butyrics
(i) *Clostridium sp.* (ii) *Alternaria sp.*
(iii) *Pseudomonas sp.* (iv) *Leuconostoc sp.*
- 3 Choose the microbe that causes Gray mold rot.
(i) *Botrytis sp.* (ii) *Rhizopus sp.*
(iii) *Alternaria sp.* (iv) All the above.
- 4 Select the food borne disease caused by *Streptococcus pyogenes*
(i) Scarlet Fever (ii) Dysentery
(iii) Vomitting (iv) Dizziness
- 5 Identify the general method of waste Disposal.
(i) Dilution (ii) Irrigation
(iii) Lagooning (iv) All the above

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Illustrate the structure and multiplication of Bacteriophage.
OR
b Distinguish between Prokaryotes and Eukaryotes.
- 7 a Explain the Physiological Characteristics of Mold.
OR
b Assess the process of hybridization of Yeast.
- 8 a Interpret the causes of spoilage of milk.
OR
b Speculate on chemical changes caused by microbes.
- 9 a Classify Food Borne infections.
OR
b Infer on Gastroenteritis.

Cont...

- 10 a Inspect the role of heat and radiation in microbial Control.

OR

- b Summarize on BOD.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Illustrate the economic importance of Bacteria in food microbiology.

OR

- b Explain the food as a substrate for growth of microbes.

- 12 a Evaluate on Economic Importance of Algae.

OR

- b Speculate on various genera of Mold which shows its significance in Food?

- 13 a Assess the Contamination and Spoilage of Fish.

OR

- b Interpret on Contamination and Spoilage of Fruits and vegetables.

- 14 a Analyze the causes, signs, symptoms and prevention of *Trichinosis*.

OR

- b Elucidate on Food Poisoning by *Aspergillus sp.* and *Penicillium sp.*

- 15 a Infer on Bacteriological examination of water for *E.Coli*.

OR

- b Examine on Chemical agents involved in controlling microbial growth.

Z-Z-Z

END