

THE UNIVERSITY OF BURDWAN
B.Sc. (Hons.) Part-III Theory Examination: 2021

Subject: Nutrition

Paper –V

(Food Microbiology, Community Nutrition & Epidemiology)

F.M. – 50

Time: 3 hrs

Candidates are required to give the answers in their own words as far as practicable.

Answer all *questions* as instructed

Examinees are instructed to submit the scanned copies / photographs of their answer scripts
within 30 minutes after the completion of examination

1. Answer the following question (Any six):

5×6=30

- a) What do you mean by hygiene? Write a short note on kitchen hygiene.
- b) Define the term fermentation. Compare homolactic and heterolactic fermentation.
- c) What are faecal coliforms? Discuss the membrane filter technique of coliform isolation.
- d) Describe the pathogenicity of botulism.
- e) Write a short note on physical method of sterilization.
- f) Illustrate the role of microorganisms in the spoilage of vegetables and fruits.
- g) Define selective and differential media with one example of each.
- h) Write down the steps of descriptive epidemiological study.

2. Answer the following questions (Any two):

10×2=20

- a) Discuss how environmental, social and cultural factors that affect community health?
 - b) Draw a typical bacterial growth curve and state the importance of different phases of bacterial growth.
 - c) Differentiate between food infection and food poisoning. Describe staphylococcal food poisoning in special reference to mode of transmission and methods of prevention.
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