

2025

5th Semester Examination (CCFUP : NEP)

NUTRITION

Paper : MJ 10-T (Single Core Major)

(Food Microbiology)



Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. What do you mean by enriched media?
2. Define water activity (a_w).
3. Write the consequences of norovirus poisoning.
4. Write the name of one dairy and one vegetable based fermented food products.
5. What is vermin?
6. Define starter culture.
7. Write the differences between mold and yeast.

P.T.O.

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8. Mention the common symptoms of *Salmonella enterica* poisoning.

Group - B

Answer any *four* questions : 5×4=20

9. Briefly describe the Extrinsic and Intrinsic factors affecting bacterial growth.
10. How do you correlate probiotics with postbiotics?
11. Write the causes, symptoms, route of transmission, mode of action, and preventive measures of Botulinum toxin.
12. Give two examples of highly perishable foods. Discuss the harmful effects of Aflatoxin along with its source. 1+4
13. Describe the roles of fungi in food fermentation. 1+4
14. What do you mean by growth rate and generation time? Define Fed batch Fermentation. 3+2

Group - C

Answer any *one* question : 10×1=10

15. Differentiate Gram positive and Gram negative bacteria. Write a short note on parasitic infection. Mention clinical symptoms of *Escherichia coli* 0157 infection. 3+4+3



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16. Write a short note on preparation of alcoholic beverage. Discuss the roles of different factors influencing the effectiveness of various probiotics. 5+5

