

2021

NUTRITION
[HONOURS]

Paper : V

Full Marks : 90

Time : 4 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP-A****(Food Microbiology)****(Marks : 45)**Answer **Q.No. 1** and any **four** from the rest.1. Answer any **five** questions from the following:

1×5=5

- Define probiotics.
- What is red meat?
- Write the full form of NCCP.
- Mention any two types of shellfish poisoning.

e) Write two main principle of food preservation.

f) What is freeze drying?

g) What is aflatoxicosis?

h) What is 'Listeriosis'?

2. a) What is selective medium?

b) Describe the essential nutrients to be present in a culture medium in general.

c) Discuss the factors controlling bacterial growth. 1+5+4

3. a) What do you mean by microbial fermentation?

b) Describe in brief with example of any two foods prepared by fermentation process.

c) Distinguish between food poisoning and food spoilage. 2+5+3

4. a) Why are foods blanched or scalded?

b) What are the procedures followed after drying?

c) What are the factors that occur during freezing? 2+3+5=10

5. a) Define cross contamination of food.

[Turn over]

- b) Explain—"Chinese Restaurant Syndrome".
 - c) Discuss some extrinsic parameters of foods that effect microbial growth. 2+3+5
6. a) What is nutrient brozts?
- b) Mention the different types of shellfish poisoning.
 - c) Suggest the measures to be taken to reduce the exposure of Individuals to chemical contaminations through food chain. 1+4+5
7. a) Write the name of two important chemical preservatives for food preservation.
- b) Mention the effects of acids radiation on microorganisms.
 - c) Discuss in brief the use of high temperature to control the microorganisms in foods. 2+2+6

GROUP-B
(Community Nutrition and Epidemiology)
(Marks : 45)

Answer **Q.No. 8** and any **four** from the rest.

8. Answer any **five** questions from the following: 1×5=5
- a) Define "Cold chain".
 - b) What is crude death rate?
 - c) Write the full form of DOTS.
 - d) Define antiseptic.
 - e) What is morbidity?
 - f) What is pertussis?
 - g) Mention any two qualities of safe drinking water.
 - h) What is nosocomial disease?
9. a) Discuss the factors influencing the epidemiology of a disease.
- b) Discuss about one vector-borne parasitic disease of human.
 - c) Discuss in short about PEM. 1+4+5

10. a) Define Antisera.
b) Differentiate between active and passive immunity.
c) Write in brief about the importance of booster dose in vaccination. 2+4+4
11. a) Define Vaccine.
b) Why immunization is checked in foreign travellers?
c) Write in brief about UIP which is followed at present. 1+4+5
12. a) Define 'Ascariasis'.
b) Mention the causative agent and clinical features of amoebiasis.
c) Write the preventive measure of amoebiasis. 1+(3+3)+3
13. a) What is Cohort Study?
b) State the transmission process of communicable diseases.
c) Write the difference between incidence and prevalence rate of disease. 2+4+4

14. Write short note on: $2\frac{1}{2} \times 4 = 10$
- a) 'Anti rickettic vitamin'
b) Case control studies
c) Zoonosis
d) Pandemic disease
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