

2016

NUTRITION

[Honours]

PAPER – VI

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*

Illustrate the answers wherever necessary

GROUP – A

Answer any two questions : 15 × 2

1. (a) State the role of important micro-organisms in fermented foods.
- (b) Discuss different types of media used in the cultivation of micro-organisms.

(Turn Over)

(c) Describe the role of any two intrinsic factors that affecting growth and survival of microbes.

(d) Discuss about different preservatives used in the commercial food. $3 + 4 + 4 + 4$

2. (a) Differentiate freezing and freeze drying.

(b) What do you mean by cross contamination of food ? How do you prevent cross contamination of food ?

(c) Explain how egg, poultry and meat products are spoiled.

(d) Enumerate your idea about food laws. $3 + (2 + 2) + 4 + 4$

3. (a) What do you mean by vital statistics ?

(b) 'Community health development may be assured from the improvement of life span' – elaborate the statement.

(c) State the major obstacles of child immunization at rural sectors of India.

- (d) What do you mean serological disease detection in health epidemiology? $3 + 4 + 4 + 4$
4. (a) How do you differentiate diagnostic test and screening in a community?
- (b) Define crude birth rate and relative risk.
- (c) State the effect of sex ratio on child health.
- (d) Define demography and population density.
 $3 + (2 + 2) + (2 + 2) + (2 + 2)$
5. (a) What is HACCP? State the principles of HACCP in food plant hygiene or sanitation.
- (b) 'Sometimes preservatives may be the cause of ill health' – explain.
- (c) Discuss food borne diseases due to parasitic existence in food.
- (d) What are the symptoms of cholera outbreak?
 $(2 + 3) + 2 + 4 + 4$
6. (a) State the laws for governing food standards.
- (b) What do you mean by codex alimentations?

- (c) What is Herd immunity ?
- (d) Give the schematic schedule of child immunization starting from birth. 3 + 4 + 3 + 5

GROUP – B

Answer any five questions : 8 × 5

7. (a) Mention the primary sources of micro-organisms in food.
- (b) What are the physical methods for destruction of microorganisms in foods ?
- (c) Describe one chemical method for destruction of microbes in foods. 2 + 3 + 3
8. (a) What do you mean by spoilage of food ?
- (b) How cereal and cereal products are spoiled ?
- (c) State the utility of canned foods. 2 + 4 + 2
9. (a) Define sterilization.
- (b) How milk is pasturised ?

- (c) Differentiate between sterilization and disinfection. $2 + 4 + 2$
10. (a) Name two food borne and two water borne diseases.
- (b) State the adverse effects of unhygienic kitchen and their preventive measures. $2 + (3 + 3)$
11. (a) What is meant by vulnerable group? Give proper example.
- (b) Why children and aged persons are considered as vulnerable groups? $(2 + 1) + 5$
12. (a) Name any four water borne infection's agents.
- (b) State the role of any one infectious agent in our body.
- (c) What is safe drinking water? $2 + 4 + 2$
13. (a) What is adulteration of food?
- (b) Mention the full forms of FPO and ISI.
- (c) State the role of ISI on food adulteration. $2 + 2 + 4$

14. (a) What is sludge ?
- (b) Mention the avenues of waste disposal in rural sectors.
- (c) How sewage is treated for further use ? $2 + 2 + 4$
15. (a) What do you mean by epidemic and sporadic disease ?
- (b) Discuss the investigative and detective methods of cholera. $2 + (3 + 3)$
16. (a) Define health.
- (b) What is meant by positive health ?
- (c) Explain the determinants of positive life-style maintenance. $2 + 2 + 4$

GROUP – C

Answer any five questions : 4×5

17. How do you assess milk quality from the existence of caliform bacteria ? 4

18. How do you maintain kitchen hygiene for pregnant mothers ? 4
 19. What do you mean by municipal waste ? 4
 20. Discuss briefly the governmental policies for safe drinking water. 4
 21. State the different strategies to promote community food protection. 4
 22. Discuss about the lag phase in microbial cultivation. 4
 23. How does community health servillience system work ? 4
 24. State the mode of transmission of causative agent of typhoid. 4
 25. Differentiate infection and intoxication. 4
 26. State the standard sanitary quality of water. 4
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