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M.Sc. RNLKWC-/CEM-104/22

2022

CHEMISTRY

M.Sc. First Semester End Examination - 2022

PAPER - CEM-104

Full Marks : 40

Time : 2 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

Give answer any four questions.

4×2=8

1. a) Write the importance of water for food stability. 2
- b) What type of water present in food and define each type. 1+1
- c) What do you mean by Water Activity. 2

(Turn Over)

(2)

- d) What is food? Write the function of food. 1+1
- e) Write the importance of protein present in food. 2
- f) Write the importance of Vitamins present in food. 2
- g) How food contaminated with food. 2
- h) What types of microorganism present in food. 2
- i) What is food preservatives? Give example. 2

Group - B

Give answer any four questions. 8×4=32

2. What is food pigments and flavoring agents? Give four microbial pigments with microorganism used in food industry. $2+(4\times1\frac{1}{2})=8$
3. Write the effect of synthetic pigments on health. Write the chief constituents of food with their chief source. $4+4=8$
4. How water activity influence microbial growth in food. What is fermented food? Write the importance of fermented food. $5+1+2=8$

(3)

5. Classify the fermented food on the basis of raw materials with product. What is homofermenters and heterofermenters? Give example. $4+4=8$
6. Schematically represent the preparation of idli. Write the therapeutic value of fermented food. $4+4=8$
7. Give some common food with associated normal flora. Write the source of micro organism found in food. $4+4=8$
8. Write the several factors influence the microbial growth in food. What is food spoilage? Write the basic principle of food spoilage. $4+(1+3)=8$
9. What do you mean by food poisoning? Write the cause of food poisoning? Write the basic principle of food preservation. $(1+3)+4=8$
10. Write short note on— $4+4=8$
(i) Canning (ii) Pasteurization