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M.Sc. RNLK-/102/21

2021 Food Science & Nutrition [First Semester] Paper - 102 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

Answer any five of the following. $5 \times 2 = 10$		
1.	What is 'Maillard' reaction and how does it occ	aur? 2
2.	Why are 'Sequestrants' added to some food?	2
3.	What is the importance of glutamic acid in whe	at? Which
	amino acid low in wheat particularly?	1+1
4.	Write the name of albumin and globulin p	resent in
	legumes. What is sorption isotherm?	1+1
		(Turn Over)

5.	What are anticaking agents give examples? What is food emulsion? 1+1	
6.	Classify prolamins with examples. 2	
7.	What are the 4 sensory characteristics for 'Analysing food'? 2	
Group - B		
Ans	wer any four questions. 4×5=20	
8.	What do you mean by acidic and alkaline food? Give an	
	example of alkaline, acidic and neutral food? 2+3	
9.	When a substance consider to be neutral? 5	
10.	Briefly describe the foll of pH in food? 5	
11.	What do you mean by Isoelectric pH of protein? 5	
12.	Write the name of foods whith act as oxidizing agent and reducing agent? $2\frac{1}{2}+2\frac{1}{2}$	
13.	Explain the process of enzymatic browing/ oxidative browning? How is OPR important in oxidative browning? $2\frac{1}{2}+2\frac{1}{2}$	

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(Continued)

Group - C

Answer any one of the following.

14. What is free, bound and entrapped water? Write the structure of water molecule. State briefly the properties of water? What is vapour pressure and boiling point of water?

(3+2+3+(1+1)=10

1×10=10

15. What is emulsion in mayonnaise? Write rancidity mentioning its importance. Write the functions of fat stabilizers? 3+1+2

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