

B.Sc. Semester I (Honours) Examination, 2018-19

NUTRITION

Course Id : 12312

Course Code : SHNUT-102C-2(T)

Course Title : Food Science and Basic Nutrition I

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5
 - (a) What do you mean by functional food?
 - (b) Write the name of two sulphur containing amino acids.
 - (c) What is resistant starch?
 - (d) What is acid number of fat?
 - (e) Give an example of aldotriose.
 - (f) What is non-reducing sugar?
 - (g) What is fibrous protein?
 - (h) Mention the sources of soluble dietary fibre.

 2. Answer *any two* questions: 5×2=10
 - (a) What do you mean by denaturation of protein? What are the effects of denaturation? 2+3=5
 - (b) Write the physiological functions of food. What is primary undernutrition? 3+2=5
 - (c) What is hydrogenation of fat? Describe hydrolysis of triglyceride. What is detergent? 2+2+1=5
 - (d) What are pyranose and furanose isomers of carbohydrates? Write the ring structure of lactose. 3+2=5

 3. Answer *any one* question: 10×1=10
 - (a) Describe Kiliani synthesis. What is mutarotation? Write the mutarotation of glucose. 5+2+3=10
 - (b) Classify amino acid based on polarity. What is amino acid score? Describe the Ninhydrin test of protein. What is PER? 3+2+3+2=10
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