

SH-I/NUT/102/C-2/19

B.Sc. 1st Semester (Honours) Examination, 2019-20

NUTRITION

Course ID : 12312

Course Code : SH/NUT/102/C-2

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* of the following questions: 1×5=5
- (a) What do you mean by phytochemicals?
 - (b) What is mixed triglycerides?
 - (c) What is epimer?
 - (d) What is fibrous protein?
 - (e) Give two examples of non-polar amino acid.
 - (f) What is iodine number?
 - (g) What do you mean by soap?
 - (h) What is reducing sugar?
2. Answer *any two* of the following questions: 5×2=10
- (a) What do you mean by rancidity of fat? Mention its causes. What is saponification number?
1+2+2=5
 - (b) How fructose is formed from glucose? What is the difference between D and L sugar? 3+2=5
 - (c) Write the role of dietary fibre in prevention of constipation and coronary heart disease.
2½×2=5
 - (d) What do you mean by NPU? What is isoelectric point? What is conditionally essential amino acid?
2+2+1=5
3. Answer *any one* of the following questions: 10×1=10
- (a) Glucose and fructose form same osazone—Explain. Describe Ruff degradation. Give one example of heteropolysaccharide. 5+4+1=10
 - (b) Classify protein based on chemical nature. Write biuret and xanthoproteic tests of protein.
6+(2+2)=10
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