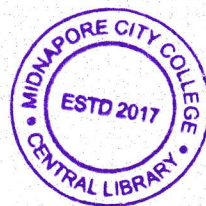


The West Bengal University of Health Sciences
M. Sc. in Applied Nutrition Part - I October, 2023 Examination

Subject: Food Science & Advanced Nutrition I
 Paper: II



Full Marks: 80
 Time: 3 hrs.

Unit – I (Food Science)

1. Answer **any two** questions of the following :
 - a) Define food processing and food preservation. Mention the major advantages of food processing. What are the effects of food deterioration? 5+3+2
 - b) Define genetically modified food. Why are genetically modified food produced? Are genetically modified foods safe – justify. 3+4+3
 - c) Differentiate between protein isolate, concentrate and hydrolysates. Mention the applications of whey protein concentrates and soy protein isolates. 6+4
2. Write short notes on **any five** of the following : 5 x 4
 - a) Effect of deep frying and shallow frying.
 - b) Food colors.
 - c) Food packaging.
 - d) Proprietary foods.
 - e) Nutraceuticals.
 - f) Non starch polysaccharides.

Unit – II (Advanced Nutrition I)

3. Answer **any two** questions of the following :
 - a) State the composition of Human milk. Why it is more suitable for the baby upto 6 months? Briefly discuss about the problems associated with old age affecting nutrition. 3+2+5
 - b) Write the food sources of vitamin-12. Briefly discuss about the function of Zinc. Describe the Vitamin-A deficiency disorders in brief. 2+3+5
 - c) Describe the factors affecting BMR. Explain the beneficial effect of fibre in nutrition. 5+5
4. Write short notes on **any four** of the following : 4 x 5
 - a) PDCAAS.
 - b) Eating disorder in Adolescence.
 - c) Fluorosis.
 - d) Nutritional significance of Chromium.
 - e) Effects of phytates in iron absorption.