

PG CBCS
M.Sc. Semester-II Examination, 2022
DEPARTMENT OF FOOD SCIENCE & NUTRITION
 PAPER: FSN 201
(HEALTH MODULATING NUTRIENTS)

Full Marks: 40**Time: 2 Hours****Write the answer for each unit in separate sheet**

The figures in the right-hand margin indicate full marks.

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

GROUP-A**1. Answer any two questions:****2 X 8=16**

- a) What do you mean by First Order and Zero Order kinetics of drug elimination? Write short notes on polymeric and monomeric formula with application. 4+4
- b) Explain the role of plasma protein in drug transportation. Write the role of Vit-D on immunomodulation. 4+4
- c) Write the role of adiponectin and leptin for the regulation of obesity. Brown adipose tissues are good for neonates-justify. 3+3+2
- d) Write the pathophysiology of Galactosemia. What is the treatment strategy of Maple Syrup Urine disease? Mention the name of the enzymes which are responsible for phenylketonuria. 3+4+1

GROUP-B**2. Answer any four questions:****4 X 4=16**

- a) Write the genetically basis of cancer. Example the different stages of cancer.
- b) How do antioxidants in the diet improve cardiovascular health?
- c) Write the biogenesis of cardiovascular Diseases by LDL.
- d) Write about the body composition on performance.
- e) How drug affect the nutrient absorption?
- f) What do you mean by sports anaemia?
- g) Define ergogenic aids.
- h) What do you mean by PC system?

**GROUP-C****3. Answer any four questions:****4 X 2=8**

- a) What are the apoptotic and anti-apoptotic factors?
- b) Define xenobiotics.
- c) Mention the different routes of drug elimination.
- d) What do you mean by bio-transformation drugs?
- e) What are organochlorine pesticide residues?
- f) What do you mean by plasma half-life of a drug?
- g) Define pre-game and post-game meal.
- h) What do you mean by lactose intolerance?
