



PG (CBCS)  
M.Sc Semester- II Examination, 2023  
FOOD SCIENCE & NUTRITION  
PAPER: FSN 201  
(HEALTH MODULATING NUTRIENTS)

Full Marks: 40

Time: 2 Hours

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 **FOUR** from the following questions: 2×4=8
- a) Define pharmacotherapeutics.
  - b) Mention the different components of health & skill related fitness.
  - c) What do you mean by ergogenic aids with an example?
  - d) Write the name of enzyme causing PKU and albinism.
  - e) What do you mean by galactosemia?
  - f) Define "Black Urine" disease.

**GROUP-B**

2. Answer any **FOUR** from the following questions: 4×4=16
- a) Give an account of polymeric formula mentioning its composition and application.
  - b) Discuss about the role of drug interaction on nutrient absorption.
  - c) Write down the role of BAT for neonates.
  - d) Write a short note on First Pass Metabolism.
  - e) Elucidate the role of plasma protein on drug transportation in the body.
  - f) Write about the mechanistic pathway of MSUD.

**GROUP-C**

3. Answer any **TWO** from the following questions: 2×8=16
- a) Discuss the mechanism of xenobiotic detoxification from body. Write down the adverse effect of EDOS on reproductive system. 4+4
  - b) Explain about the bioenergetics of a marathon runner. Discuss about the role of DHEA as ergogenic aids. 4+4
  - c) Write down the role of drug on nutrient absorption from GI tract. Write the name of hormone released from adipose tissue. How does atheroma is developed in the blood vessels? 3+2+3
  - d) Explain about the first order and zero order kinetics of drug elimination. What do you mean by Plasma-Half Life of a drug. How does nutrient can interfere drug metabolism? 4+2+2