Total page: 01

PG (CBCS)
M.SC. Semester- IV Examination, 2022
FOOD SCIENCE & NUTRITION
PAPER: FSN 401
(GENETICALLY MODIFIED FOODS, FOOD FORTIFICATION AND FOODTOXICOLOGY)

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** of the following questions: 2×4=8
   a) Define GMO.
   b) What are the changes made in "golden rice"?
   c) What is hidden hunger?
   d) State the purpose of tragated food fortification.
   e) Define LD50 & TD50.
   f) What do you mean by 'subacute' toxicity?
   g) Differentiate between toxin & poison.
   h) State the health benefits of GM food.

GROUP-B

2. Answer any **FOUR** of the following questions: 4×4=16
   a) Discuss about the role of gene technology for preparing GM food.
   b) Describe about the different steps of food fortification process.
   c) State about the effects of toxicity of mercury poisoning.
   d) Write the importance of mass food fortification.
   e) Mention the different criticism of GM Foods. Name the genetic modification made in NASA-potato.
   f) Classify commercialized GM crops with specific examples.
   g) Why GM foods are not popular in India? Give reasons.
   h) State the toxicity of Alfa-toxin poisoning.

GROUP-C

3. Answer any **TWO** of the following questions: 8×2=16
   a) Why is golden rice called a GM crops? Describe the steps involved in different types of tomatoes developed by GM food technology. 3+5
   b) Explain the toxicity of four naturally occurring food-plant toxin with their sources.
   c) State the role of FAO in GM food production. Discuss the different Health & safety concerning of GM Foods for Human consumption. 2+6
   d) Explain the toxicity of sea food poisoning with special reference to PSP, NSP & DSP. Draw a experimental design to assess liver toxicity on mice model.

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