End Semester Examination, 2021 Semester - III Food Science & Nutrition PAPER - MFSN-302

Full Marks: 40
Time: 2 Hours

Group - A

- 1. Answer any <u>five</u> (5) questions of the following: 5x2=10
- a) What do you mean by drus biotransformation?
- b) Define epigentics.
- c) What do you mean by nutraceuticals?
- d) Give any two examples of probiotics food.
- e) Define LP₅₀ Value of toxic subtance.
- f) Define the term 'phytoestrogen.'
- g) What do you mean by gene imprintation?
- h) Define metabolomics.

Group - B

- 2. Answer any four of the following: 4x5=20
- a) "Obesity is controlled by W₃-falty acid" Explain the state from the view point of nutrigenomics. 5
- b) 'Glucose exposene to embryo at oritical phase control the onset of diabetes in future life' – Justify

(Turn Over)

	the	statement	from	the	view	point	of
	nutriepigenetics.						5
c)	Describe the possible ways by which nutrients						can
	a h l a	to modulat	o tha	drug	ohoor	ntion f	rom

- able to modulate the drug abserption from interstine.
- d) Write in brief about human genome project. 5
- e) Write a short note on 'Amylase inhibitor'. 5
- f) 'Let food be thy medicine and medicine be thy food'-Justify the statement.

Group - C

3. Answer any one of the following: 1x10=10

- a) Describe the chemical reactions involved in epigenetics. Write the Major differences between nutriepigentics and nutrigenomics. Write any one model about nutrient-gene interaction. 4+4+2
- b) Write the health beneficial effects of lycopene. How does vitamin-D exerts its positive immunomodulatory roles though 'Nutrient-gene' interaction.

 4+6