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RNLKWC/M.Sc.-CBCS/IIIS/MFSN-302/P.G./22

2022

Food Science and Nutrition

[P.G.]

(CBCS)

(M.Sc. Third Semester End Examination-2022)

PAPER-302

Full Marks:40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable*

Illustrate the answers wherever necessary

Group-A

A. Answer any five questions of the following: 5x2= 10

- 1) Differentiate nutrigenomics and nutrigenetics.
- 2) Define phytosteroid.
- 3) What do you mean by bioavailability of drug?
- 4) Define pseudovitamin.
- 5) Write the role of fluorine on human health
- 6) Write the relationship between prebiotics and probiotics.
- 7) What do you mean by gene silencing?
- 8) Why is lycopene known as nutraceutical?

(2)

Group-B

B. Answer any four questions of the following: 4x5 = 20

- 9) "Curcumin is inflammatory modulatory nutraceutical"-
Justify the statement from the view point of nutrigenetics.
- 10) 'Vitamin A is lipid metabolic regulator'- critically analysis
the statement from the angle of nutrigenomics.
- 11) State the possible way of drug-nutrient interaction for
absorption of nutrients from g.i. tract
- 12) Discuss the role of selenium and magnesium on human
health.
- 13) Write briefly the interaction of plant microbiome with
human- microbiome.
- 14) Discuss the phase-I and phase-II of biotransformation of
drug.

Group-C

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

- 15) What is amylase inhibitor? State the role of amylase
inhibitor on health benefit. What is IC50 value? 2+6+2
 - 16) State about the role of choline and lipoic acid. Draw the
structure of 2- flavonol and 3-flavonol. Write the
biochemical function of inositol. 4+3+3
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