

Food Science and Nutrition (P.G.)

[CBCS]

M.Sc. Third Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER- MFSN 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

Answer any five questions of the following:

2x5= 10

1. Why vitamin D referred as hormone?
2. What do you mean by phytochemical ?
3. Define anthocyanins.
4. What do you mean by secondary metabolites?
5. Define biotransformation.
6. What do you mean by nutrigenetics?
7. Define metabolomics.
8. What is pharmacodynamics?

Group B

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

9. "Vitamin D is immunoboosting nutrient" – Justify the statement from the view point of nutrient- gene interaction citing the role of cathilicidin and HBD genes. 2½ +2½
10. State the role of folate in nutriepigenetics from the view point of regulation of inflammation through gene imprinting. 5
11. Write the characteristic feature and classification of prebiotics. 5
12. "Nutrient status influence the drug transportation" – Justify the statement. 5
13. "Lycopene as antiageing phytomolecule" – Justify the statement. 5
14. Write the strategies adopted to increase the bioavalability of curcumin. State the mode of action of curcumin for reducing oxidative stress linked co-morbidities. 2+3

Group C

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

15. Define phytoestrogen. Describe the role of DADS in cancer management. 2+8
16. Describe the steps adopted in metabolonics. Discuss the antioxidant role of taurine. 5+5