

2024
Sem-2

Roll no.....

Department of Food Technology
School of Interdisciplinary Sciences and Technology
Jamia Hamdard, New Delhi – 110062
M.Sc. Nutrition and Dietetics
End Term Examination Semester-III, December, 2024
Paper Title: Nutrigenomics lab; Paper Code: MDNEC-312

Duration: 3 Hours

Max Marks: 30

Note: write to the point, please make sure you have mentioned question no. before answering

SECTION -A

Q. no- II. Attempt the questions from the following:

(5 marks each, MM-20)

1.	What is genetic testing? What are the uses of genetic testing? OR What is the importance of family medical history? How would you take a family medical history?	CO -3, 5, PO-2,3
2.	What are the signs in micronutrient deficiencies of Vitamin A and iron. Give foods rich in these nutrients OR Draw and explain the structure of DNA? Explain homozygous and heterozygous alleles.	CO -3, 5, PO-2,3
3.	Write on the role of following: (Any two) a. Folate and methylenetetrahydrofolate reductase (MTHFR) b. Hepatocyte Nuclear Factor 4 (HNF4) c. Insulin-like growth factor binding protein-1(IGFBP1) d. Protein kinase activity (PKA). e. Omega -3 and 6 fatty acid and Fatty acid desaturase (FADS) f. Fibre and Adiponectin (ADIPOQ)	CO-3,4, PO-2,3
4.	Write on the role of following bioactive compounds: (Any two) a. Limonoids b. Pectin c. Genistein d. Fiber	CO-3,4, PO-2,3

SECTION-B

(5 marks each, MM-10)

1.	File
2.	Viva voce