

ACTIVITY CODE: 1903147021

B.Sc. 6th Semester (Honours) Examination, October 2020

Subject: Nutrition

Course ID: 62317

Course Code: SH/NUT/604/DSE-4

Course Title: NUTRIGENOMICS

Full Marks: 12

Time: 40 mins.

The figures in the margin indicate full marks

Unit I

1. Answer *any Four* of the following questions: (1*4=4)

- a) Define nutrigenomics.
- b) What is nutrigenetics?
- c) What is a query sequence?
- d) Give the full form of BLAST.
- e) Mention the name of any two nucleic acid database.
- f) What is a taxon?
- g) What is E value?
- h) What is computational health informatics?
- i) Write the full form of SNP.
- j) What is genomics?

Unit II

2. Answer *any One* of the following questions: (3*1=3)

- a) What are the different types of phylogenetic tree? 3
- b) What are the basic four tenets of nutrigenomics? 3
- c) What are the different applications of pharmacogenomics? 3

d) Describe how nutrients can affect the gene expression at the cellular level. 3

Unit III

3. Answer *any One* of the following questions: (5*1=5)

a) What is BLAST? Mention the different types of standard blast. 1+4=5

b) Explain MSA? What are the different uses of MSA? 2+3=5

c) What do you mean by health informatics? What is health informatics law? 4+1 =5

d) What do you mean by phylogenetic tree? Draw and describe the different parts of phylogenetic tree. 1+1+3=5

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