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**DMI-ST. EUGENE UNIVERSITY**  
**DEGREE EXAMINATION – DECEMBER – 2022**

**SEM:VI 357FP63 NUTRITION ASSESSMENT, NUTRIGENOMICS AND NUTRITION MANAGEMENT**

Time: 3 Hours

Max. Marks: 100

**Answer any Five questions (5 x 20 = 100 Marks)**

1. a) Describe an ideal nutrition status (5 marks)  
b) Explain surveillance. (5 marks)  
c) Explain a quality diet. (5 marks)  
d) Describe Anthropometric methods in Nutrition assessment (5 marks)
2. a) Give an explanation to the 1000 most critical days/window of opportunity and its implication. (5 marks)  
b) Why is Protein requirement maximum in neonates and early childhood but gradually decreases with age increases? (5 marks)  
c) Give a detailed description on the advantages of breastfeeding. (5 marks)  
d) Compare and contrast the action of prolactin and oxytocin in breast milk production. (5 marks)
3. a) Describe health informatics. (5 marks)  
b) Explain nutrigenomics. (5 marks)  
c) Mention the function of nucleic acid base. (5 marks)  
d) What does pharmacogenomics involve? (5 marks)
4. a) Explain Bioinformatics. (10 marks)  
b) Highlight on BLAST. (5 marks)  
c) What is Multiple Sequence Alignment? (5 marks)
5. a) Discuss the changing concept of hospital. (10 marks)  
b) Give a detailed description of the role of dieticians in hospital management. (10 marks)

6. a) Explain the two methods of interpretation of dietary data. (5 marks)
  - b) List 5 methods of dietary assessment. (5 marks)
  - c) Describe two limitations of biochemical methods of nutrition assessment. (5 marks)
  - d) Explain the difference between the body mass index for children and teens and adults. (5 marks)
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7. a) Give a classification of food chemical composition. (5 marks)
  - b) Briefly describe any classification of vitamins. (5 marks)
  - c) Briefly describe any classification of minerals. (5marks)
  - d) Explain breastfeeding and exclusive breastfeeding. (5 mark)