

HOME SCIENCE

PAPER - II

Time Allowed : 3 hours

Full Marks : 100

*Marks for each question is indicated against it.*

*Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.*

**PART - A**

1. Explain the following: **(5×4)=20**
  - (a) Carbohydrate metabolism with reference to glycemic index and glycemic load
  - (b) Vitamin B12 deficiency and its source
  - (c) Food fads and fallacies
  - (d) Factors to be considered while planning a balanced diet
2. Write the difference between malnutrition and optimum nutrition. What dietary modification will you do to treat an obese child? What do you understand by therapeutic diet? In what ways a normal diet can be modified for a sick person? **(6+5+3+6=20)**
3. Define Alcohols. Classify it. Give the structural formula of Ethyl Alcohol. Explain the Properties of Ethyl Alcohol. What are the uses of Ethyl Alcohol and Methyl Alcohol. **(2+2+3+3+5+5=20)**
4. Write the biological importance of carbohydrate. Differentiate between saturated and unsaturated fatty acid giving one example of each saturated and unsaturated fatty acid. What do you understand by genetic code? Describe the different structures of RNAs. **(4+6+4+6=20)**

**PART - B**

5. Define the terms growth and development. Discuss the various factors that affect growth and development. What is prenatal environment? Discuss the significance of good nutrition and emotional status of the mother during prenatal period. **(4+8+4+4=20)**
6. Describe the stages of prenatal growth and development. What are the conditions that affects prenatal development? List the developmental task of early childhood. **(7+7+6=20)**
7. What are the common nutritional problems in public health? Discuss in detail. What are the leading causes of neonatal mortality in our country? **(16+4=20)**
8. (a) What is Language Development? Explain the different stages of language development in children. **(2+8=10)**  
(b) Briefly write on the contributions of Maria Montessori to early childhood education. **(10)**