Q.1. Briefly mention etiology of the following nutritional problems:
(a) Nutritional anemia  
(b) IDD  
(c) PEM  
(d) Vitamin A deficiency  

(4x2 1/2 =10)

OR

Elaborate on the strategies adopted for prevention of following:
(a) Iron deficiency anemia  
(b) Vitamin A deficiency  

(5+5=10)

Q.2. (i) What are the common measurements used in nutritional anthropometry?  
(ii) Explain the following dietary methods:
(a) FFQ  
(b) Weighment method  

(6+2+2=10)

Q.3. (i) Explain the following channels of nutrition education communication:
(a) Individual approach  
(b) Mass approach  
(ii) What is CBC? What are its objectives?  

(3+3+4=10)

OR

(i) List and explain various approaches of nutrition education.  
(ii) List the criteria to be adopted for selection of communication channel.  

(6+4=10)

Q.4. (i) What is food allergy? What are its symptoms?  
(ii) Discuss different kinds of elimination diets that are used for detecting allergy  

(5+5=10)
Q.5. Explain any four strategies that are used to combat public nutrition problems. OR
Enumerate the phases of the process of nutrition education. (10)

Q.6. Explain the following programs:
   (a) ICDS   (b) PMGY
   (c) RAP    (d) NMDM

OR
(i) What are the essential elements of message design?
(ii) Briefly explain the components of training assessment.
(iii) Mention the skills needed by the community health worker to do their job. (4x2 ½ =10)

Q.7. (i) Explain the bio-chemical changes observed in PEM
(ii) Give the classification of Goitre
(iv) Write a note on NNAPP

Q.8. (i) Give the nutrition and dietary management of phenylketonuria.
(ii) Give the list of foods to be included and excluded in galactosemia. (5+5=10)

Q.9. Briefly explain the following:
   (a) Supplementation
   (b) Target audience
   (c) Reference standards
   (d) FBS
   (e) Consumption unit

Q.10. Differentiate between the following:
   (a) Marasmus and kwashiorkor
   (b) Enrichment and fortification
   (c) Clinical and bio-chemical assessment
   (d) Heme and non-heme iron
   (e) Infantometer and stadiometer

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