

Total number of printed pages-4

53 (FPT 816) NAFF

2014

**SPECIALITY FOODS :  
NUTRACEUTICALS AND FUNCTIONAL  
FOODS**

**Paper : FPT 816**

*Full Marks : 100*

*Time : Three hours*

*The figures in the margin indicate full marks  
for the questions.*

*Answer any five questions from seven.*

1. (a) Explain the speciality of infant/baby foods. 5
- (b) Describe the diet recommendations for adolescent people. 5
- (c) What are the physical problems faced by elderly people ? 4
- (d) Differentiate speciality foods and functional foods. 3

*Contd.*

- (e) Differentiate fever and infection. 3
2. (a) Explain Galactosemia, Obesity and Diabetes.  $2+2+3=7$
- (b) Describe the diet recommendations for Obese people. 3
- (c) Explain what happens in Lactose Intolerance, Celiac disease, Jaundice, Bilereflux and Cholecystitis.  $5 \times 2 = 10$
3. (a) What are Omega-3 and Omega-6 Fatty acids ? Where are they found ?  $2+1=3$
- (b) What are the various sources of anti-oxidants ? Explain their mode of action.  $2+4=6$
- (c) What are fructo-oligosaccharides ? Where are they extracted from ?  $2+1=3$
- (d) Why is GLA important ? Discuss the health benefits of GLA.  $2+4=6$
- (e) What are the components of Dietary Fibre ? Give examples. 2

4. (a) Write a note on nutritional deficiencies and its correction through fortification and supplementation of foods. 10
- (b) What are transgenic plant foods? Why are they important? Briefly describe their health claims. 3+3+4=10
5. (a) Write *one* advantage and *one* disadvantage of sugar alcohols. 1.5+1.5=3
- (b) What is the difference between peptides and proteins? What is hyperproteinemia? 2+2=4
- (c) Write *any three* properties of glycosides. 3
- (d) Why are iso-prenoides important? 4
- (e) Write a note on the Beneficial effects of species and honey. 3+3=6
6. (a) What are the various kinds of allergies? Explain what is Urticaria and Anaphylaxis? 2+1+1=4
- (b) Write an explanatory note on Probiotics and Prebiotics. 10

(c) What is Spirulina? Write a few of its beneficial effects.  $2+4=6$

7. Write notes on **any five** :  $5 \times 4 = 20$

(a) Choline

(b) LAB

(c) Flavonols

(d) Minerals and other minor food constituents

(e) Alcohols

(f) Phenolics

(g) Vitamins.