

00328

Ph.D. (FOOD AND NUTRITION) (PHDFN)**Term-End Examination****December, 2016****RFNE-004 : ADVANCE NUTRITION***Time : 3 hours**Maximum Marks : 100*

Note : (i) *Answer five questions in all.*
(ii) *All questions carry equal marks.*

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1. (a) Briefly describe the major determinants of human nutritional requirements giving appropriate examples. 15
 - (b) Briefly present the basic concept utilized in deriving recommended dietary allowances. 5
 2. (a) What do you understand by "Chronic Energy Deficiency" (CED) ? Give the classification for CED. 6
 - (b) Discuss the factors leading to CED and the consequences in the life cycle. 7+7
 3. (a) Differentiate between Dietary Fibre and Resistant Starch (RS) giving appropriate examples. 6
 - (b) Briefly describe the potential health benefits of both dietary fibre and resistant starch in humans. 7+7

4. Explain the following briefly : 5+5+5+5
- (a) Role of folate in DNA biosynthesis and methylation cycle.
 - (b) Divergent functions of Zinc in our body.
 - (c) Importance of selenium in human nutrition.
 - (d) Bioavailability of Vitamin A in our diet.
5. Highlighting the difference between probiotics and prebiotics describe the health effects/benefits of the two in human nutrition. 20
6. (a) Briefly discuss the various techniques for measuring body composition. 10
- (b) Elaborate on the nutritional needs at high altitude. 10
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