# 2015

## M.Sc.

## 2nd Semester Examination

## CLINICAL NUTRITION & DIETETICS

### PAPER—CND-202

*Full Marks : 40*

*Time :* 2 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer *Question No 1* and any *three* of the following.

**1.** Answer any *ten* of the following : 1×10

(a) What is the use of *Agrabacterium turnifaciance* in GM technology ?

(b) Give two examples of PUFA.

(c) What do you mean by bioavailibility ?

(d) What is geinstein ?

(e) Write one example of omega-3-fatty acid.

(f) Write the name of nutraceuticals found in tomato.

(g) State the beneficial role of circumin for human health.

(h) Write the name of two insoluble dietary fibers ?

(i) What is meant by non nutrient effect of a nutrient ?

(j) Name two phytosterols ?

(k) Write the full form of Bt ?

(l) Write the name of one protease inhibitor.

(m) Write the name of a vitamin helps in the synthesis of DNA.

(n) What is haemagglutinin ?

(o) Name two flavonoids.

**2.** (a) Why nutraceutical research is prioritized in the feild of nutritional research ?

(b) 'Geinstein is a nutraceutical'— justify.

5+5

**3.** (a) Compare antibiotic and prokiotic.

(b) State different types of natural sources of probiotic at birth and after birth.

(c) State the impact of imbalance of intestinal microflora.

(d) 'Prebiotics acts as cofactors prebiotics'— Justify the statement with example. 2+3+2+3

**4.** (a) What do you mean by functional food ?

(b) State the need of food fortification with its types.

(c) Explain why folic acid and vitamin-D fortification is essential. 2+4+4

**5.** (a) Write the names of few common GM foods.

(b) Describe the possible benefits of GM foods.

(c) How rapid ripening of tomato is prevented by genetic engineering ?

(d) Daigramiticaly shows any one technique of transgenic technology. 1+3+3+3

6. (a) What are micronutrients of food ?

(b) Write the importance of Zinc in nutrigenemic process.

(c) What are major physiological role of PUFA in human ?

2+4+4

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