

M.Sc.

2011

2nd Semester Examination

NUTRITION & DIETETICS

PAPER—NUD-201

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.

Module—I

1. Answer any five questions of the following : 1×5
- (a) Write the full forms of SAM and RUTF.
 - (b) Write age group of different phases of adolescence.
 - (c) What is the energy requirement for heavy work and light work per kg body weight per hour ?
 - (d) Write the names of any two metabolic diseases noted in aged person.
 - (e) State the protein and calcium demand of a nursing mother at 1st half.

(Turn Over)

- (f) Define neonate and post neonate stages.
- (g) Write the energy requirement of a children at the age of 4-5 yrs and 10-11 yrs.
2. (a) State energy supply during 1st week and 2nd week during starvation.
- (b) How blood glucose level remain at the normal range to some extent during late acute or early chronic phase of starvation.
- (c) State the electrolyte metabolism with special reference sodium, potassium and calcium in starvation. 3+2+3

Or

- (a) State the guideline for the supply of nutrient to the adolescence girl.
- (b) Discuss the importance of protein and calcium in geriatric nutrition. 4+2+2
3. (a) What is weaning?
- (b) State the importance of weaning for infant nutrition with special reference to formulated food.
- (c) Write the hygiene of bottle feeding for health care of infant. $1\frac{1}{2}+3\frac{1}{2}+2$

Or

- (a) Write the RDA of energy as different trimester of pregnancy.
- (b) Discuss the guideline for proper nutrition of pregnant mother with special reference to protein, fat and carbohydrate. 3+7

Module—II

4. Answer any five questions of the following : 1×5
- (a) Define nutraceutical.
- (b) What do you mean by nutritional care ?
- (c) Define nutriproteomics
- (d) What do you mean by nutri-epigenetics ?
- (e) What do you mean by biotransformation of drug ?
- (f) Write the full form of PEJ and PEG.
- (g) Write the full form of FOS and DNMT..
5. (a) "Omega-3 and omega-6 fatty acids are modulators of gene expression"—Justify the statement.
- (b) How SAM control the expression of oncogene ? 4+4

Or

- (a) Define prebiotics and probiotics.
- (b) Discuss the effects of FOS on 'Bacteria-Bacteria interaction' in our gut in favour of health improvement/disease prevention. 3+5

6. (a) Discuss the effects of nutrients on drug transportation in our blood stream. ?
- (b) How nutrients can influence the drug excretion through renal bed. 4+3

Or

- (a) "For long period of nutrition care partial parenteral feeding is adopted". Justify the statement.
- (b) Write the advantages and limitation of enteral feeding.
- (c) Write the monitoring of parenteral feeding.

$2+(1\frac{1}{2}+1\frac{1}{2})+2$
