

**M.Sc.**

**2015**

**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) What do you mean by sexual maturity ratings?
  - (b) Name two non-essential polyunsaturated fatty acids required for brain development in infants.
  - (c) What do you mean by physiologic anaemia of growth?
  - (d) What is the calcium requirement of a lactating mother?
  - (e) Why is ketosis noted during starvation?

*(Turn Over)*

- (f) What is let down reflex?
- (g) What is the RDA value of iron and folic acid of adult female, according to ICMR recommendation 2010?
- (h) Write the full form of IUD and IUGR.
2. (a) State the principle for preparation of a diet chart of a pregnant women.
- (b) Distinguish between the nutritional problems of Indian and Western adolescents.
- (c) Explain Lactobacillus Bifidus factor.
- (d) Write the disadvantages of artificial feeding.

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

Or

- (a) Discuss the guidelines for supplying proper nutrients to the geriatric person.
- (b) Write briefly on the role of "lean fish" in geriatric diet.
- (c) How does herbal nutrition play a vital role during geriatric period?
3. (a) Give a brief account of the carbohydrate and lipid metabolic status during starvation.
- (b) Differentiate between stress and non-stress starvation.

$$3+3+2$$

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

Or

- (a) Write the criteria of reference man and reference women.

- (b) What are the factors affecting RDA ?  
 (c) Write notes on the nutritional requirements of LBW baby.  $2+2\frac{1}{2}+2\frac{1}{2}$

**Module—II**

4. Answer any *five* questions from the following :  $1 \times 5$
- (a) What do you mean by host ?
  - (b) Define probiotics with example.
  - (c) What is biotransformation ?
  - (d) Why is calcium known as medicine ?
  - (e) What is tyramine ? What is its source ?
  - (f) What is pharmacokinetics ?
  - (g) Why grape fruit juice is not recommended within two hours of medication ?
  - (h) Write the full form of MAO and HCTZ.
5. (a) How do the food drug interactions alter a medication's effectiveness ?  
 (b) Give a brief account on food drug and drug nutrient interactions.  
 (c) Name one enzyme involved in drug metabolism.

$$1\frac{1}{2}+(2\frac{1}{2}+3)+1$$

Or

- (a) Describe the different types of major microbes present in different part of GI tract.
- (b) Discuss the curative aspect of nutrients which are considered as medicine. 4+4

6. (a) Discuss the composition of enteral feeding.
- (b) In which condition parenteral feeding is indisputable ?
  - (c) "Parenteral feeding is not continues for long time"  
— Justify the statement.  $2\frac{1}{2}+2\frac{1}{2}+2$

*Or*

- (a) Discuss briefly on the gene-nutrition interactions.
  - (b) "Nutrients influence the efficacy of the drug" —  
Justify the statement from the view ponit of drug bio-  
transformation.
  - (c) What is thrifty gene? 4+2+1
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