

M.Sc.

2013

4th Semester Examination

NUTRITION & DIETETICS

PAPER—NUD-404

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.

Special Paper

(Medical Nutrition Therapy)

Module—I

1. Answer any *five* questions of the following : 1×5
- (a) What do you mean by lactose maldigestion ?
 - (b) Write the names of any two sensors for the assessment of anaemia.
 - (c) What do you mean by inflammatory bowel disease ?
 - (d) Write any two symptoms of ulcer.

(Turn Over)

- (e) What do you mean by β -thalassemia ?
 - (f) What do you mean by lactaid ?
 - (g) What do you mean by Vitamin E responsive anaemia ?
 - (h) Define gastritis.
2. (a) What do you mean by sports anaemia ?
- (b) Discuss the mechanism of sports anaemia.
 - (c) Write the different features of sickle cell anaemia.
 - (d) Write the nutritional management of the patient suffering from sickle cell anaemia.
- 2+2+2+2

Or

- (a) State the different components of food style.
 - (b) Describe the food style modification of the management of hyperlipidaemia.
 - (c) "Life style modification is one of the way for the management of hypertension"—Justify the statement.
- 2+3+3
3. (a) What do you mean by primary and secondary type of lactose intolerance ?
- (b) Describe any one diagnostic test for the detection of lactose intolerance.
 - (c) State the dietary management of the individual suffering from lactose intolerance.
- 2+2+3

Or

- (a) Write the differences between gastric ulcer and duodenal ulcer.
- (b) Why protein and lipid enriched diet is provided to the ulcer patients?
- (c) "Heavy meal is not provided to the ulcer patient"—Justify the statement.
- (d) State in brief the guide line for the dietary management of ulcer.

J1

2+2+1+2

Module—II

4. Answer any *five* questions of the following : 1×5
 - (a) What do you mean by cariostatic food stuffs?
 - (b) What do you mean by osteopenia?
 - (c) Define nutrigenomics.
 - (d) What do you mean by gene imprintation by nutrient?
 - (e) What do you mean by oral health?
 - (f) Write the full forms of BMD and BMC.
 - (g) Write the full forms of SERMs and OPG.
 - (h) Define epigenetics.
5.
 - (a) How do osteopenia differ from osteoporosis?
 - (b) Why Geinsein is preferred to prevent osteoporosis over estrogen replacement therapy?

- (c) State in brief the guideline for the dietary management of osteoporosis. 2+3+3

Or

- (a) Discuss any two facts focussing nutrient gene interaction.
- (b) State in brief about the role of dietary ingredients on epigenetics of cancer.
- (c) "Tocopherol modulate drug metabolism through gene expression"—Justify the statement. 2+3+3

6. (a) What do you mean by periodontal disease ?
- (b) State the dietary pattern that influence the early childhood caries.
- (c) Describe the food style for keeping good oral health.
- (d) Write the basic mechanism of dental caries. $1\frac{1}{2}+1\frac{1}{2}+2+2$

Or

- (a) "DHA modulate lipogenesis through the regulation of fatty acid synthase" — explain the statement from the view point of nutrient-gene interaction.
- (b) "Folic acid is one of the important dietary component for the modulation of gene expression". Justify the statement from the angle of health care management of dietotherapy. 4+3

Special Paper**(Community Nutrition & Health Care)****Module—I**

1. Answer any *five* questions of the following : 1×5

(a) Write the names of different modern nutrition education programme.

(b) What is food assistance ?

(c) Write the names of any two types of SNP.

(d) What do you mean by food behavior.

(e) Why supplementary Nutrition programme is important ?

(f) What do you mean by individual strategy of nutrition education ?

(g) Write the full form of BNP.

(h) Write the objectives of ANP.

2. (a) Write the principle of 'W to W' strategy for community health upgradation.

(b) State the operation of 'W to W' strategy.

(c) Write the aims of nutrition education.

2+4+2

Or

- (a) Describe the major determinants of food behaviour.
- (b) How IEC can able to influence the community nutrition? 4+4
3. (a) Describe the agricultural strategies adopted in our country for community nutrition upgradation.
- (b) "Food preservation strategy is one of the important ways for community nutrition upgradation".—Justify the statement.
- (c) Write any two types of food assistance programme. 3+2+2

Or

- (a) Describe the approaches taken by Govt. for spreading the nutrition education through formal education system.
- (b) Discuss in brief about presentation of specific 'Nutrition Education' approach in rural sector through local administrative level. 4+3

Module—II

4. Answer any *five* questions of the following : 1×5
- (a) Write the full form of AYUSH ?
 - (b) Write the full form of ASHA.
 - (c) What do you mean by 'chlorine demand' of water ?
 - (d) What is Nalgenda technique ?
 - (e) Which committee recommended about the 'prohibition of private practice of Govt. doctors' ?
 - (f) What do you mean by cross contamination of food ?
 - (g) What is NTCP ?
 - (h) Mention the year of establishment of Indian food policy.
5. (a) 'Tuberculosis is a major public health issue interlinked with poverty and malnutrition' — explain the statement.
- (b) Describe the different steps are taken for the tuberculosis control programme in a community from the angle of diagnostic strategy.
 - (c) Mention about nutritional management of a tuberculosis patient taking isoniazids.

2+4+2

Or

- (a) 'Water with zero hardness is not acceptable as drinking water'—explain the statement.
- (b) What is permutit process?
- (c) What is the ideal process of filtration of community water? 2+2+4
6. (a) Write the name of seven important committees of health planning sectors of India.
- (b) Discuss recommendations of any two committee.
- (c) What is the admissible limit of fluoride in water? 2+4+1

Or

- (a) Discuss the different regulatory aspects of food selection.
- (b) How food selection influences the nutritional status of an individual?
- (c) Mention the eligibility criteria of ASHA. 4+2+1
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