

M.Sc.

2011

4th Semester Examination

NUTRITION & DIETETICS

PAPER—XXI

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

[Community Nutrition & Health Care]

Module—I

- I. Write Short Notes on any five of the following : 1×5
- (a) Woman to woman strategy.
 - (b) Food fortification.
 - (c) KAP package.
 - (d) Nutrition—Education.
 - (e) GM food.
 - (f) Food style and health.

(Turn Over)

- (g) Dietary pattern.
- (h) Cultural aspect of Diet.
2. (a) Write the aims and objectives of Nutrition Education.
- (b) Discuss the different steps of traditional technique for nutrition education of the community to change food behaviour. 3+5

Or

- (a) Discuss the process of nutritional status improvement through awareness by woman to woman strategy covering its different steps.
- (b) Write the advantages and limitation of this strategy. 5+3
3. (a) Write the criteria for food based intervention programme.
- (b) State the advantages of food based intervention over health based intervention.
- (c) Write the limitation of food based intervention programme. 3+2+2

Or

- (a) "Dietary diversification is important to improve nutritional status"—Discuss the statement.
- (b) State the role of any one modern technique for improving the nutrition education in connection with modification of dietary pattern. 3+4

Module—II

4. Write Short Notes on any *five* of the following : 1×5
- Policy.
 - Cost-effective ratio.
 - Surveillance.
 - Programme evaluation.
 - Schedule of the programme.
 - Food productivity.
 - Programme monitoring.
 - Value analysis.

5. (a) Discuss the factors affecting nutritional programme evaluation.
- (b) State the impact of programme evaluation on programme management.
- (c) Write the importance of continuous monitoring on programme effectiveness. 3+3+2

Or

- (a) Define operation research.
- (b) State the steps adopted for the conduction of operation research in the field of nutrition.
- (c) Write the impact of operation research on community nutrition up gradation. 1+4+3
6. (a) Describe the process of cost-benefit analysis.
- (b) Write the uses of cost-benefit analysis in health care. 3+4

Or

- (a) Examine the impact of malnutrition on productivity of rural households in India.
- (b) Define nutritional paradox and immunization puzzle. 3+4

Special Paper

[Medical Nutrition Therapy]

Module—I

1. Answer any *five* from the following :
- (a) What do you mean by copper deficiency anaemia?
 - (b) What do you mean by hemochromatosis?
 - (c) Write any two causes of gastritis.
 - (d) What is the cause of sports anaemia?
 - (e) What do you mean by megaloblastic anaemia?
 - (f) Write the name of microbe for peptic ulcer.
 - (g) What is thalassaemia?
2. (a) Discuss in brief the differences between gastric and duodenal ulcer.
- (b) What will be your nutritional advice to such a patient?

Or

- (a) Write the different types of thalassaemia?
 - (b) Discuss briefly the management of a thalassaemic patient from the angle of nutritional therapy.
3. (a) What is atherosclerosis?
- (b) Describe how life style is related to atherosclerosis.

Or

- (a) Describe the role of gastrointestinal microflora in the maintenance of gastrointestinal physiology in reference to nutrition.
- (b) Write the causes of lactose maldigestion. 5+2

Module—II

4. Answer any five from the following : 1×5

- (a) What do you mean by epigenetics.
- (b) What do you mean by periodontal disease?
- (c) What is Osteoporosis?
- (d) What do you mean by real time PCR?
- (e) What is one-enzyme one tube system?
- (f) Write the full form of SAM and DNMT.
- (g) What do you mean by bone density?

5. (a) What is gingivitis?
- (b) How will you diagnose a patient suffering from gingivitis?
- (c) Write the nutritional care against gingivitis.

2+2+4

Or

- (a) Write the advantages of real time PCR over traditional PCR.
- (b) Discuss briefly the fundamentals of Real time —
- (c) State the monitoring system of DNA quantification through real time — PCR.

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6. (a) What are the symptoms of Osteoarthritis?
- (b) State the nutritional management and life modification for the recovery of Osteoarthritis.

Or

- (a) What is the basis of the regulation of cell division by oncogene?
- (b) How SAM control the oncogene expression modulation DNMT3b