

M.Sc.

2011

4th Semester Examination

NUTRITION & DIETETICS

PAPER—XXII

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

1. Answer any five from the following : 1×5
- (a) What is Woman to woman strategy?
 - (b) Write the names of the factors which influence community nutrition.
 - (c) Define nutrition education.
 - (d) Who are the beneficiaries of applied nutritional programme.
 - (e) Mention the importance of supplementary nutrition programme.

- (f) Write the objectives of Vit-A prophylaxis programme.
- (g) What is the mission of the community strategy for nutritional education ?
- (h) Write one important food behaviour of under nutrition.

2. (a) What is community nutrition ?
- (b) Write the impact of nutrition education for behavioural changes in connection with food selection and diet composition. 3+5

Or

- (a) Define food assistance.
 - (b) Write the objectives of M.D.M.P.
 - (c) Discuss the activities of I.C.D.S. 2+2+4
3. (a) 'Health is a product of interdependence among the individual, family, community culture and physical environment'. Justify the statement.
- (b) Specify the determinants of food behaviour. 4+3

Or

- (a) What is folk approaches ?
- (b) Write the impact of modern techniques on folk approaches ?
- (c) What are the different types of approaches adopted in Nutrition Education ? 2+2+3

Module—II

4. Answer any five from the following : 1×5
- (a) Define solid disposal.
 - (b) Write the names of any two food borne disorders.
 - (c) Write basic difference between long term and short term food budget.
 - (d) Mention the selection criteria of nut.
 - (e) What is food spoilage?
 - (f) What is Public health?
 - (g) Define food budgeting.
 - (h) Mention the role of fungi as a major agents of disease transmission.

5. (a) Which factors influence food budgeting?
 (b) What are the major steps followed to prepare a short term food budget? 4+4

Or

- (a) Discuss the relationship between economy and food budget.
- (b) What is food selection?
- (c) 'Aerated soft drinks have no nutritional value' — Clarify the sentence. 3+2+3

6. (a) Explain the methods of food storage of different foods.
 (b) What do you mean by reservoirs of the agents and classify them. 4+3

Or

- (a) Write the major objectives of public health related issues.
- (b) How family planning programme fulfil the major objectives of public health issues?
- (c) Write the different mode of transmission of agent from reservoir to host. 2+2+3

Special Paper
[Medical Nutrition Therapy]

Module—I

2. 1. Answer any five questions of the following :
- (a) What do you mean by Septicemia ?
 - (b) What do you mean by dementia ?
 - (c) What do you mean by systemic inflammatory syndrome ?
 - (d) What is Metabolic stress.
 - (e) Write the energy requirement of burn patient
 - (f) Cause of Parkinson's disease.
 - (g) What is Ketogenic diet ?
 - (h) Academic dietitian.
3. 2. (a) Write the different types of burn according to cause and its severity.
- (b) What are the methods by which nutrition can be given to a burn patient ?
 - (c) What is epilepsy ?

Or

- (a) Write the role of a dietitian in medical nutrition therapy
- (b) Write the guidelines about the medical nutrition therapy for the recovery of metabolic stress

3. (a) What are the symptoms of Myasthenia Gravis?
(b) Describe the nutritional therapy of the patient suffering from Myasthenia Gravis. 4+3

Or

- (a) Discuss the Pathogenesis of Parkinson's disease.
(b) What measures are to be taken by you for the nutritional management of Alzheimer's Patient. 3+4

Module—II

4. Answer any five questions of the following : 1×5
- (a) What is glycosuria?
(b) What is tachypnea?
(c) What do you mean by nephrolithiasis?
(d) Write the name of any two carcinogenic food pollutants.
(e) What two dietary causes cancer in colon?
(f) What is metastasis?
(g) Define anuria.
(h) What is COPD?
5. (a) What are the factors that facilitate to cause bronchial asthma?

- (b) Discuss briefly the pathophysiology of cystic fibrosis of Lungs.

Or

- (a) What are the symptoms of Asthma.
 (b) Write the 'code of ethics' of a dietitian.

6. (a) Enumerate the clinical features of common cervical cancer?
 (b) Write the principles of dietary management for patient suffering from Proteinuria.
 (c) What steps you will suggest for prevention of primary liver malignancy?

3+2.

Or

- (a) What is dialysis?
 (b) When you will advise a patient for dialysis?
 (c) What are the dietary measures to be taken for patient who takes dialysis regularly?

1+2.

Special Paper ~~XXXX~~
(Medical Nutrition Therapy)
F.M. 40
Module-I

1. Answer any five from the following

- a) What is siderosis
- b) What do you mean by B-Thalasemia?
- c) Write an example of chronic disease related with anaemia?
- d) Write the names of any two food items provided for the management of gastritis.
- e) Write any two causes of Peptic ulcer.
- f) What do you mean by colitis ?
- g) What do you mean by food style?
- h) Write any two symptoms related to sports anaemia

2.a) What do you mean by therapeutic life-style?

2+6=8

b) Write the health friendly life style for the management of diabetes mellitus.

Or

a) Write the different stages of atherosclerosis.

b) State the dietary management of atherosclerosis

3+5=8

3. a) Write the aetiology of peptic ulcer:

b) State the risk factors of peptic ulcer.

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c) Discuss the role of milk products & protein for the management of peptic ulcer.

Or

a) What do you mean by carrier of Thalassemia?

b) State the role of nutrients for the management of sports anaemia.

2+5=7

4. Answer any five of the following

- Write any one application of real time PCR.
- Write the name of any one enzyme related with methylation of genetic substance
- What is osteopenia?
- Write any one cause of dental caries.
- Write the name of any one technique used to measure the bone density.
- Write any two symptoms of Periodontal disease.
- What do mean by metabolomics?
- Write any one enzyme used in PCR.

- Write the working principle for assessment of gene expression in real basis by biotech
- Why scientist prefer real time PCR in the field of transcriptomics?
- How gene expression is quantified through Ct system? 3+2+3=8

Or

- Write the different factors influencing dental health.
- Describe any one major dental disease and its nutritional management.

2+(3+3)=8

- Write the causes of osteoarthritis .
- Explain the preventive & promotive management of any one bone disorder from the ang

Or

- Write the role of oncoprotein on cellcycle .
- How methionine can control random cell division by modification of regulatory gene expression to DNA Methyl transferase?