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PG/IVS/NUD-404/12

M.Sc. 4th Semester Examination, 2012

NUTRITION AND DIETETION

PAPER— 404

Full Marks : 40

Time : 2 hours

Answer all questions

The figures in the right-hand margin indicate 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 and Health Care)

MODULE — I

1. Answer any five questions from the following : 1 × 5
 - (a) What do you mean by targated supplementary nutrition programme ?

(Turn Over)

- (b) Write the names of any two process of sample selection in connection with nutrition status assessment of rural children.
 - (c) Write the full form of NEP.
 - (d) Write the full form of ARF.
 - (e) Write any two advantages of food behavior.
 - (f) Write the full forms of SAM and MAM.
 - (g) Define nutritional strategy.
 - (h) What do you mean by food assistance ?
2. (a) How ARF is prepared using home base technology ?
- (b) State the strategy of ARF mixed complementary food for the recovery of undernutrition at the preschool stage.
- (c) Discuss the role of village health workers to make change in the behaviour of mothers in favour of ARF mixed complementary food to combat undernutrition.

3 + 3

Or

- (a) What do you mean by ICDS Phase IV ?
- (b) Write the different levels to organize the ICDS programme.
- (c) Give your suggestions for further improvement of ICDS programme. 2 + 2 +

3. (a) Write the principle behind 'C to C' strategy.
- (b) State the different steps adopted for the implementation of 'C to C' strategy for the translation of knowledge to the community.
- (c) Discuss the 'Johari's window' for NEP in the community. 2 + 3 + 2

Or

- (a) Discuss the need of NEP ?
- (b) Write the latest approach for nutrition upgradation of community with special reference to SAM and MAM. 2 + 3

MODULE – II

4. Answer any *five* questions from the following : 1 × 5
- (a) Define sanitation.
 - (b) Mention the selection criteria of flesh food.
 - (c) What do you mean by food selection ?
 - (d) Write the names of any four agents that influence the food safety.
 - (e) What do you mean by 'Intellegant buying' ?
 - (f) What do you mean by public health related issues ?
 - (g) Write the names of any two mode of transmission of agent from reservior to lost.
 - (h) What do you mean by food resources ?
5. (a) How will you prepare a long term annual food budget ?
- (b) Write the advantages of food budgeting.
 - (c) "For family marketing wholesell market is not the ideal market from the view point of economy in general. Some modifications in strategy can change

the wholesell market to be more economic for family marketing." — Justify the statement from the view point of strategy modification. 2 + 2 + 4

Or

- (a) Write the process of food selection for proper health maintenance with example.
- (b) State the impact of food selection for disease prevention.
- (c) Write the impact of food storage on community health. 1 + 1 + 2
6. (a) State the different avenues of 'Environment Food-Health' interaction from the view point of food safety and health disorder.
- (b) Write your suggestions for the improvement of food safety from environmental contamination. 4 + 3

Or

- (a) Define solid wastes.
- (b) How poor solid waste disposal effect environment sanitation.

- (c) "Poor environmental sanitation results poor public health" – Justify the statement with example. 2 + 2 + 3

(Special Paper : *Medical Nutrition Therapy*)

MODULE – I

1. Answer any *five* questions from the following : 1 × 5
- (a) What do you mean by haemochromatosis?
 - (b) Write the full form of TCB.
 - (c) Write the role of salivary-R-Protein in the management of megaloblastic anaemia.
 - (d) What is the main cause of lactose intolerance ?
 - (e) Write one example of life style and another for food style related disease.
 - (f) Write the full forms of IBD and IBS .
 - (g) What is sideroblastic anaemia ?
 - (h) What is the cause of lactose maldigestion ?

2. (a) Write about the B_{12} -absorption kinetics in connection with megaloblastic anaemia.
- (b) Discuss the nutritional therapy of megaloblastic anaemia.
- (c) What do you mean by sports anaemia? 2 + 4 + 2

Or

- (a) Write the different symptoms of IBD.
- (b) State the medical nutrition therapy of the patient suffering from IBD.
- (c) Write the nutritional management of lactose intolerance. 2 + 3 + 3
3. (a) State the different components of food style.
- (b) Discuss the management of diabetes through life style and food style modification. 2 + (2 + 3)

Or

- (a) State the mechanism of vit-E responsive anaemia.

- (b) Why most of the chronic G.I. diseases result anaemia?
- (c) State medical nutrition therapy for Gastritis. 2 + 2 + 3

MODULE – II

4. Answer any five questions from the following : 1 × 5
- (a) What is osteopenia ?
- (b) What do you mean by cariogenicity ?
- (c) What do you mean by nutrascriptomics ?
- (d) What is periodontal disease ?
- (e) What do you mean by oral health ?
- (f) What do you mean by gene imprintation by nutrients ?
- (g) What do you mean by q-PCR ?
- (h) Write one example of Xenoestrogen.
- 5 (a) Write the etiology of dental caries.
- (b) State the factors affecting cariogenicity.

- (c) Classify food on the basis of cariogenicity.
- (d) Write the guide line of nutritional therapy for the prevention of dental caries. $2 + 1\frac{1}{2} + 1\frac{1}{2} + 3$

Or

- (a) Write the classification of osteoporosis with special reference to the difference between type-I and type-II osteoporosis.
- (b) State the nutritional therapy of osteoporosis. 4 + 4
6. (a) Write the difference between nutrigenomics and nutrigenetics.
- (b) Describe the role of folic acid on specific gene expression in connection with health care.
- (c) Explain in brief about nutrition therapy of any one disease through epigenetics. 1 + 3 + 3

Or

- (a) What do you mean by methylation of nucleotide ?

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- (b) "DNA hyper or hypomethylation can effect gene expression" -- Justify the statement.
- (c) What do you mean by DNA acetylation and state its effect on gene expression. 1 + 4