M.Sc. (DFSM)

Master of Science in Dietetics and Food Service Management M.Sc. (DFSM)

1st Year Assignment

Assignment 4

July 2025 session

(This assignment relates to Course MFN-006 Public Nutrition)



Indira Gandhi National Open University SCHOOL OF CONTINUING EDUCATION Maidan Garhi, New Delhi -110 068

Masters of Science Degree Programme in Dietetics and Food Service Management M.Sc. (DFSM)

ASSIGNMENT 4

Dear Students,

You will have to do sixteen assignments in all to qualify for a M.Sc. (DFSM) degree. For a 2-credit theory course, you will have to do one assignment and for a 4-6 credit theory course, two assignments. All the assignments are tutor marked and each Tutor Marked Assignment carries 100 marks. The course-wise distribution of assignments is as follows:

Assignment 1 (TMA-1): based on MFN-001 (Units 1-12) Assignment 2 (TMA-2): based on MFN-002 (Units 1-12)

Assignment 3 (TMA-3): based on MFN-003 (Units 1-14)

Assignment 4 (TMA-4): based on MFN-006 (Units 1-18)

Assignment 5 (TMA-5): based on MFN-008 (Units 1-12)

Assignment 6 (TMA-6): based on MFN-010 (Units 1-12)

INSTRUCTIONS

Before attempting the assignments, please read the following instructions carefully.

- 1) Write your Enrolment Number, Name, Full Address, Signature and Date on the top right-hand corner of the first page of your response sheet.
- 2) Write the Programme Title, Course Code, Title Assignment Code and Name of our Study Centre on the left-hand corner of the first page of your response sheet. Course Code and Assignment Code may be reproduced from the assignment.

The top of the first page of your response sheet should look like this:

	Enrolment No.			
	Name			
	Address			
Course Title				
Assignment No				
Date Programme Study Centre				

All Tutor Marked Assignments are to be submitted at the study centre assigned to you.

3) Read the assignments carefully and follow the specific instructions, if any, given on the assignment itself about the subject matter or its presentation.

- 4) Go through the Units on which assignments are based. Make some points regarding the question and then rearrange those points in a logical order and draw up a rough outline of your answer. Make sure that the answer is logical and coherent and has clear connections between sentences and paragraphs. The answer should be relevant to the question given in the assignment. Make sure that you have attempted all the main points of the question. Once you are satisfied with your answer, write down the final version neatly and underline the points you wish to emphasize. While solving numerical, use proper format and give working notes wherever necessary.
 - 1) Use only full-scale size paper for your response and tie all the pages carefully. Avoid using very thin paper. Allow a 4 cm margin on the left and at least 4 lines in between each answer. This may facilitate the evaluator to write useful comments in the margin at appropriate places.
 - 2) Write the responses in your own hand. Do not print or type the answers. Do not copy your answers from the Units/Blocks sent to you by the University. If you copy, you will get zero marks for the respective question.
 - 3) Do not copy from the response sheets of other students. If copying is noticed, the assignments of such students will be rejected.
 - 4) Write each assignment separately. All the assignments should not be written in continuity.
 - 5) Write the question number with each answer.
 - 6) The completed assignment should be sent to the Coordinator of the Study Centre allotted to you. Under any circumstances, do not send the tutor marked response sheets to the Student Registration and Evaluation Division at Head Quarters for evaluation.
 - 7) After submitting the assignment at the Study centre get the acknowledgement from the coordinator on the prescribed assignment remittance-cumacknowledgement card.
 - 8) In case you have requested for a change of Study Centre, you should submit your Tutor marked Assignments only to the original Study Centre until the change of Study Centre is notified by the University.
 - 9) If you find that there is any factual error in evaluation of your assignments e.g. any portion of assignment response has not been evaluated or total of score recorded on assignment response is incorrect, you should approach the coordinator of your study centre for correction and transmission of correct score to headquarters.

A Note of Caution

It has been noticed that some students are sending answers to Check Your Progress Exercises to the University for Evaluation. Please do not send them to us. These exercises are given to help in judging your own progress. For this purpose, we have provided the answers to these exercises at the end of each Unit. We have already mentioned this in the Programme Guide. Before dispatching your answer script, please make sure you have taken care of the following points:

- Your enrollment number, name and address have been written correctly.
- The title of the course and assignment number has been written clearly.
- Each assignment on each course has been written on separate sheets and pinned properly.
- All the questions in the assignments have been answered.

Now read the guidelines before answering questions.

GUIDELINES FOR TMA

The Tutor Marked Assignments have two parts.

Section A: Descriptive Questions (80 marks)

In this section, you have to answer eight questions (of 10 marks each). Answer each question in about 250-300 words.

Section B: Objective Type Questions (OTQ) (20 marks)

This section contains various types of objective questions.

POINTS TO KEEP IN MIND

You will find it useful to keep the following points in mind:

- 1) Planning: Read the assignments carefully. Go through the units on which they are based. Make some points regarding each question and then rearrange the same in a logical order.
- 2) Organization: Be a little more selective and analytical. Give attention to your introduction and conclusion. The introduction must offer your brief interpretation of the question and how you propose to develop it. The conclusion must summarize your response to the question.

Make sure that your answer:

- a) is logical and coherent
- b) has clear connections between sentences and paragraphs
- c) is written correctly giving adequate consideration to your expression, style and presentation
- d) does not exceed the number of words indicated in the question.
- 3) **Presentation**: Once you are satisfied with your answers, you can write down the final version for submission, writing each answer neatly and underline the points you wish to emphasize.

ASSIGNMENT 4 TMA-4

Public Nutrition

Course Code: MFN-006

Assignment Code: MFN006/AST4/TMA-4/25-26

Last Date of Submission: 31st January 2026

Maximum Marks: 100

(80 marks)

(2+2)

This assignment is based on Units 1 - 18 of the MFN-006 Course.

Section A – Descriptive Questions

6.

monitoring in India.

There are ten questions in this part. Each question carries equal marks. Answer all the questions. 1. Explain the following briefly a) What are the health facilities available for the population at the following levels: (2+2+2)i) Block level ii) Village level iii) Centre level b) Discuss the various causes of public nutrition problems at the individual, household (4) and society level. 2. a) How is India's food security system working to improve nutritional status of the (4) population? b) Briefly explain the different clinical forms of PEM. Elaborate the preventive (2+2)measures for PEM. 3. a) Enlist the consequences and preventive measures of iron and zinc deficiencies. (3+3)(2+2+2)b) Explain causes, symptoms and preventive measures of following disease: i) Beri-beri ii) Scurvy iii) Rickets a) Explain the economic consequences of malnutrition. Enlist the various government 4. (4) nutrition programme for control of malnutrition in India. b) What do you understand by the term demography? Enumerate the various stages of (1+2)a demographic cycle. c) Explain the following terms: (1+1+1)i) Birth and death rate ii) Net reproduction rate iii) Infant mortality rate 5. a) What are the common measurements used in nutritional anthropometry? Explain briefly (2+3)how you would use them for classification of nutritional status for children. b) What do understand by dietary assessment? Elaborate on any one quantitative and one (1+2+2)qualitative method you would use for dietary assessment.

a) What is nutrition monitoring? Name the organizations involved with nutrition

	b) Write down the programme component, ta their significance in context of combating ma i) ICDS ii) NIDDCP			s and ((2+2+2)
7.	iii) NNACPa) Briefly explain the steps involved in design	ning a n	utrition health programme.	((4)
	b) What do you understand by food based strategies? Explain giving examples.				(3)
	c) Briefly explain the various theories of nutr	_		((3)
8.	a) Name the techniques commonly used to conduct situational analysis.			((2)
	b) Enlist the various channels through which communicated. Explain any one in detail.	nutritio	n/health information can be	((2+2)
	c) Explain the contribution of nutritional education of target population.	cation p	rogramme in changing the	((4)
Section	B - OTQ (Objective Type Questions)			(20mark	(s)
1.	Explain the following in context of combati	ng mal	nutrition:		(10)
	i) National Immunization Schemes				
	ii) Mid day meal programme (MDM)				
	iii) Urban and Rural Sanitation and strategies				
	iv) Dietary diversification and food fortification				
	v) Food security programmes				
2.	Explain the following terms:				(5)
	i) Social Marketing				
	ii) U5MR				
	iii) Formative Research				
	iv) Summative evaluation				
	v) Food Balance Sheet				
3.	Match the following:				(5)
_	I Kesari Dal	A	Riboflavin deficiency		. ,
]	II Neurological problems	В	Iodine		
]	III Growth Retardation	C	Zinc deficiency		
	IV Angular Stomatitis	D	Vitamin B12 Deficiency		
7	V Cretinism	E	Lathyrism		