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FOODS AND NUTRITION

1. **PREAMBLES**

Food is one the basic needs of man. Without good food, an individual would not be able to function properly in all spheres of life. Good food promotes health and therefore it is important that students are exposed to ways of selecting, preparing and cooking wholesome food for themselves and others.

Foods and Nutrition as a vocational subject prepares students for the world of work. It also encourages the creative use of local foods and associated food service to meet the nutritional needs and other demands of consumers.

2. **AIMS AND OBJECTIVES**

The general aims and objectives of the syllabus are for candidates to

- (a) acquire basic knowledge about foods and nutrition;
- (b) understand the relationship between nutrition and health;
- (c) identify career opportunities in foods and nutrition and acquire skills for further studies;
- (d) apply the general principles underlying meal planning, selection, preparation and serving of food to feed family and other consumers for different occasions;
- (e) understand the need for planning an efficient and safe kitchen;
- (f) choose, use, care and store kitchen equipment and tools effectively;
- (g) appreciate the importance of sanitation in the kitchen food preparation and service;
- (h) apply basic principles underlying food processing, storage and preservation;
- (i) acquire basic knowledge in consumer education;
- (j) acquire research skills and use the information to experiment, develop and improve local dishes;
- (k) set up a business in the food industry using all the basic skills acquired.

3. **SCHEME OF EXAMINATION**

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper and will be taken at one sitting.

PAPER 1: This will comprise sixty multiple choice questions, all of which are to be answered within 1 hour for 60 marks.

PAPER 2: This will comprise six essay questions out of which candidates will be required to answer four. The paper will carry 40 marks and will last 1 hour 15 minutes.

PAPER 3: This will be a practical test of 3 hour duration. It will carry 100 marks and will be conducted by a visiting examiner.

DETAILED SYLLABUS

S/NO	TOPIC	NOTES
I.	NUTRITION AND HEALTH	
	(1) Introduction to Foods and	(a) Meaning
	Nutrition	(b) Basic knowledge of Nutrition
		(c) Importance of Human Nutrition
		(d)Factors affecting Foods and Nutrition
		(e) Food Habits
	(2) Careers associated with Foods	(a) Careers associated with Foods and Nutrition
	and Nutrition	(b) Factors that influence career choices(c) Characteristics required for Foods and Nutrition careers
		(c) Characteristics required for 1 oods and 1 utilition careers
	(3) Basic Food Nutrients	(a) The nutrients and their nutritive values
		(b) Functions of the different nutrients
		(c) Sources of the different nutrients
		(d) Dietary deficiencies(e) Metabolism, (digestion and absorption of foods
		carbohydrate, protein, fat).
		(f) Knowledge and use of food composition table
		(g) Food tests: simple physical and chemical tests of food stuffs to detect presence of nutrients in foods e.g. proteins, fats and carbohydrates.

(4) Meal Management (a) Meal Planning	 (i) Meal planning terms (ii) Reasons for planning meals (iii) Factors in planning meals (iv) General principles of meal planning (v) Meal patterns
(b) Special Nutritional Needs	 (i) Nutritional needs for different groups e.g. pregnant, lactating mothers, infants and children, adolescents, adults and the aged, vegetarians. (ii) Planning meals for people in health condition e.g. HIV & AIDS, invalids, convalescents, overweight, underweight, hypertension, diabetes etc.

II.	FOOD LABORATORY AND EQUIPMENT	
	(1) The kitchen	 (a) Types of kitchen e.g. traditional, modern, institutional. (b) Planning different types of kitchen. (c) Factors to consider when planning. (d) Cleaning agents and abrasives (commercial and local).
	(2) Kitchen equipment and tools	(a) Classes and types of equipment(b) Selection, use, care and storage of large and small equipment, fixtures and appliances.
	(3) Safety in the kitchen	 (a) Types of kitchen accidents (b) Causes and prevention of accidents (c) Content and use of first aid box (d) Simple first aid treatment

/NO	TOPIC	NOTES
	(4) Legumes and oily seeds	(a) Classification of legumes, oily seeds(b) Importance of legumes and oily seeds in the diet, etc.
	(3) Fruits and vegetables	(a) Classification of fruits/Classification of vegetables.(b) Structure, nutritive value and storage.(c) Important of fruits and vegetables in the diet, etc.
		 (b) Importance of cereals and grains: versatility thickening cheap source of energy/good source of roughage
	(2) Cereals/grains	(a) Kinds and forms
III.	FOOD COMMODITIES (1)Animal and animal products - milk and milk products e.g Cheese, yoghurt - eggs, - meat, - poultry, - fish etc.	Kinds/types and structure - Selection - Storage
		and pest control.(c) Food hygiene e.g. handling of foods, food borne diseases, food sanitation laws.
	(4) Sanitation in the kitchen	(a) Personal Hygiene(b) Kitchen Hygiene e.g. general cleaning, waste disposal, pests

/NO	TOPIC	NOTES
	(5) Fats and oils	(a) Kinds and classification - vegetable fats and oils - animal fats and oils
		(b) Uses in diet(c) Uses in the body(d) Health implications of fats and oils
	(6) Starchy roots and plantain	(a) Types of starchy roots(b) Types of plantain(c) Types of dishes

IV.	FOODSTORAGE AND PRESERVATION	
	(1) Food spoilage	(a) Meaning of food spoilage(b) Causes and agents of food spoilage
	(2) Food preservation	(a) Meaning and importance of preservation
		(b) General principles underlying food preservation
		(c) Methods of food preservation
	(3) Food storage	(a) Meaning and importance of food storage
		(b) Storage of perishable and non perishable foods
		(c) Storage space and equipment e.g. refrigeration, deep freezer, cupboards, shelves, granaries, barns etc.
V.	FOOD PREPARATION (1) Principles underlying cooking	(a) Explanation of the concept of cooking
		(b) Reasons for cooking food
	(2) Methods of cooking	(a) Moist heat methods e.g. boiling, stewing, steaming etc.
		(b) Dry heat methods e.g. baking, roasting, grilling, frying etc.
		(c) Effects of heat on different food commodities e.g. animal products, cereals and grains, fats and oil etc.
	(3) Transfer of heat	Methods of heat transfer and meaning - Convection - liquid, gases - Radiation - space
		- conduction - solid metal

S/NO	TOPIC	NOTES
	(4)Cooking terms	Explanation of cooking terms
	(5) Food additives	 (a) Definitions (b) Types of food additives (c) Functions of additives (d) Selection and use of additives (e) Food adulteration
	(6) Flour Cookery and Confectionery	
	(a) Types of flour	(i) Types of flour (ii) Ingredients in flour (iii) Uses of flour
	(b) Basic ingredients in flour cookery	- Flour, fat, sugar, eggs
	(c) Raising agents	(i) Types of raising agents, i.e., steam, carbon dioxide and air
	(d) Batters and doughs - Batters	 (ii) Sources:- boiling liquid – steam, baking powder - carbon dioxide whisking - air (i) Types of batters (ii) Uses of batters (iii) Dishes using batter
	- Doughs	 biscuits - classification rubbed in creamed whisked melted sponge mixtures
	(e) Cakes	 rubbed in creamed whisked melted sponge mixtures

(i) Types of Pastries
Shortcrust, suet, flaky, etc.
(ii) Principles underlying pastry making
(iii) Pastry dishes e.g. turn over; jam tartlets,
cornish pasties, etc.

S/NO	TOPIC	NOTES
	(g) Yeast Mixtures	(i) Definition
		(ii) Ways of preparing yeast mixture
		(iii) Important points in preparing yeast mixture
		(iv) Yeast dishes – bread loaves, bread rolls, doughnut
	(h) Cake Decoration	
	Icing	(i) Types of icing e.g. butter icing, royal icing
		(ii) Uses of icing
		(iii) Preparation of icing
		(iv) Using royal icing and butter icing
VI.	BEVERAGES	
	(1) Classification of beverages	 (a) Non-alcoholic beverages coffee and tea cocoa drink milk and egg drinks fruit juices and fruit drinks beef tea and lemon grass (b) Alcoholic beer wine
	(2) Importance of beverages	- Nutritive values etc.
	(3) Principles underlining preparation of beverage	- Tea, coffee, cocoa etc.
VII.	CONVENIENCE FOODS	(a) Types of convenience foods
		(b) Selection and uses of convenience foods
		(c) Advantages and disadvantages of using convenience foods(d) Preparation of dishes using convenience foods.

S/NO	TOPIC	NOTES
VIII.	RECHAUFFÉ (LEFTOVER) FOODS	(a) Explanation(b) Importance of using left over goods
		(c) Rules/guidelines for using leftover foods
		(d)Rechauffé dishes
IX	FESTIVE DISHES/SPECIAL OCCASION DISHES	(a) Explanation (b) Occasions for festive dishes
		(c) Types of festive dishes/special occasion dishes
		(d) Preparation of festive dishes/special occasion dishes
X	ART OF ENTERTAINING (1) Entertainment	 (a) Explanation (b) Types of parties (c) Occasions for parties (d) Points to consider when selecting types of parties (e) Factors that contribute to the success of parties
	(2) Table setting and etiquette	 (a) Explanation e.g. table setting, cover, etc (b) Setting tables and tray for different meal and occasion (c) Table appointments (d) Table manners/etiquette
	(3) Meal Service Style	 (a) Types of meal service Informal meal service formal meal service (b) Factors determining choice of service styles types of party (c) Foods for special occasions e. g. birthday, naming ceremonies, weddings etc.
		(e) Factors that contribute to the success of parties
XI	EXPERIMENTAL COOKERY	
	(1) Research into Local dishes and Drinks	(a) Importance of research in Foods and Nutrition
		(b) Collection of information (data)
		(c) Research into local dishes
		(d) Development of new recipes
		(e) Improving existing recipes based on methods of preparation,

	Nutritive value, time and energy use and service/ presentation
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S/NO	TOPIC	NOTES
	(2) Experiments	(a) Using fruits e.g. passion fruit, samia, royal palm fruit
		(b) Other types of flour e.g. root, cereal and legumes, etc.
XII	CONSUMER EDUCATION	
	(1) Consumer Education	(a) Meaning and principles
		(b) consumer agents
	(2) Food Budgeting	(a) Explanation
		(b) Factors to consider when budgeting
	(3) Food Purchasing	(a) Guidelines for shopping for food
		(b) Guidelines for bulk purchasing
		(c) Reasons for buying in bulk
		(d) Advantages and disadvantages of bulk purchasing
XII	SELF EMPLOYMENT	
	(1) Setting up and managing a	(a) Explanation of terms
	catering enterprise	- entrepreneur
		entrepreneurshipenterprise
		(b) Characteristics of an entrepreneur
		(c) Advantages and disadvantages of an entrepreneur
		(d) Setting up a catering entrepreneur(e) Some catering enterprises
		(f) Factors contributing to the success of an enterprise
	(2) Work ethics	(a) Explanation of work ethics(b) Good work ethics
	(3) Packaging	(a) Explanation of Food Packaging
		(b) Reasons why food is packaged
		(c) Qualities of packaging materials(d) Types of packaging materials