

PET SYLLABUS FOODS, NUTRITION & DIETETICS

S.NO.	CONTENT	WEIGHTAGE
1	<u>ADVANCES IN HUMAN NUTRITION</u>	30%
	<ul style="list-style-type: none"> a. Energy requirements of population <ul style="list-style-type: none"> i. Methods of determining energy needs ii. Energy imbalances-malnutrition-Over & Under nutrition b. Role of macronutrients in health <ul style="list-style-type: none"> i. Simple and Complex carbohydrates, Dietary fiber, glycemic index & glycemic load ii. Proteins-Evaluation of quality of proteins, protein deficiency, food sources & RDA iii. Lipids-issues of quality and quantity of dietary fat, importance of Essential Fatty acids, food sources & RDA c. Micronutrients - Food sources & RDA, Effect of processing, deficiency and toxicity of vitamins & minerals d. Health benefits of Phytochemicals and Functional foods e. Nutrition throughout the life cycle-infancy, childhood, adolescence, adulthood, Pregnancy and lactation-RDAs and Nutritional concerns f. Nutrition for sports persons-energy metabolism in sports, supplements, Nutritional guidelines for various sports 	
2	PUBLIC HEALTH NUTRITION	10%
	<ul style="list-style-type: none"> a. National Nutritional problems-causes and symptoms b. Government policies and programs to control the same c. National Nutrition Mission 	
3	NUTRITIONAL BIOCHEMISTRY	20%
	<ul style="list-style-type: none"> a. Classification and metabolism of 	

	<p>carbohydrates, Proteins and lipids</p> <p>b. Nucleic acid chemistry</p> <p>c. Enzymes & hormones-functions and disturbances</p>	
4	<p>CLINICAL NUTRITION</p> <p>a. Nutrition care process & Theories of counselling</p> <p>b. Pathophysiology and principles of dietary management of the following</p> <ol style="list-style-type: none"> i. Diseases of gastrointestinal system-Peptic & duodenal ulcer, pancreatitis, diverticulosis, diarrhoea & constipation ii. Liver diseases iii. Kidney diseases iv. Chronic degenerative diseases- Diabetes, CVD, Osteoporosis, Metabolic syndrome v. Cancer -Effect of cancer & cancer therapy on the nutritional status of patients <p>c. Inborn errors of metabolism-dietary management</p>	25%
5	<p>FOOD SCIENCE</p> <p>a. Principles of Food Science: Properties of carbohydrates, proteins & lipids-Structure, functional properties</p> <p>b. Principles of Food Preservation: Heat and cold preservation techniques, Irradiation, Fermentation, Use of preservatives</p> <p>c. Processing Technology of Foods: cereals, millets, legumes, oils & Fats, Fruits & vegetables, milk & Milk products, Eggs, Meat & Meat products.</p>	15%

Research methodology