Savitribai Phule Pune University

Anekant Education Society's

Tuljaram Chaturchand College, Baramati

B.Voc. Food Processing and Post-Harvest Technology

Semester Examination, April 2019-2020

Semester II, Paper FP - 4, Nutrition Science

Question Bank

Q. 1 Objective type questions 13M

Tick mark (✓) in front of correct & mark (X) in front of wrong sentence.

- Sugars are simple carbohydrates and consist of monosaccharides & disaccharides.
- Haemoglobin is an example of a structural protein
- Oils and fats are esters of fatty acids with glycerol.
- Glucose is an aldohexos while fructose is a ketohexose

Fill in the blank Spaces in the following with appropriate words.

(a) Meat is composed of three tissues: Muscles Tissue, Connective Tissue and ……

(b) The titrable acidity of Buffalo milk varies on an average from ……. to……..%.

(c) The protein content of soybean is …….. %

(d) Oils provide …… times more energy than protein and carbohydrates.

(e) Minerals constitute _____ per cent of the total body weight.

(f) Carbohydrate in a diet should not be more than _____ of the daily calorie requirement of person.

(g) _____ is the condition which results when in sufficient food is eaten over an extended period of time.

(h) A fatty acid with a single double bond is called ---------- and A fatty acid contain two or more double bonds then it is called as a _____

(i) The percentage of endosperm, germ & bran of cereal are ..... & ..... respectively.

(j) Meat is composed of three tissues: Muscles Tissue, ……..... and adipose tissue

(k) The titrable acidity of Buffalo milk varies on an average from ……. to……..%.

(l) The percentage of endosperm, germ and bran of cereal are …….respectively.

(m) Simple Oils and Fats are esters of fatty acids with ……..

(n) A fatty acid contain two or more double bonds is called .....

(a) Sugars are consist of monosaccharide & .....

(b) ..... is an example of a transport protein

(c) Starch is a mixture of two large polymers; amylose and .....

(d) A fatty acid contain one double bonds is called .....

(e) Carotenoids is a precursor of Vitamin .....

(f) Minerals constitute ..... per cent of the total body weight.

(o) Sugars are simple carbohydrates and consist of monosaccharide & .....

(p) Haemoglobin is an example of a ..... protein

Define the Following Terms

(a) Nutrition

(b) Malnutrition

(c) Basal Metabolic Rate (BMR)

(d) Lipids

(e) Simple Proteins
(f) Lipoprotein

Match the contents of column A and column B correctly

Column 1		Column 2
i)	Vitamin D	a) Precursor to Vitamin A
ii)	Carotenoids	b) Deficiency leads to bow legs
iii)	Vitamin K	c) Used as an antioxidant
iv)	Vitamin E	d) Essential for blood clotting

Q. 2 & 3 Write short notes on any three of the following. 25M

(a) Classify the carbohydrates with example?
(b) Describe the physico-chemical properties of carbohydrates?
(c) Describe the major and minor milk constituents and write the composition of buffalo milk
(d) Describe Assimilation of Carbohydrates, Fats and Protein in Metabolism?
(e) Define Recommended Dietary Allowance (RDA)? Which factors are affected RDA?
(f) What are the Nutritional importance of oilseeds? Write in brief the functions of oils and fats in foods.
(g) Describe biochemical composition of fruits?
(h) Write notes on Chemical Composition of Meat?
(i) What are the Toxic constitute of pulses and their elimination?
(j) Classify the lipids with examples?
(k) Describe biochemical composition of fruits?
(l) Discuss the physical composition of Meat.
(m) Recommended Dietary Allowances (RDA)
(n) Food Groups
(o) Carbohydrate Metabolism or Protein and Amino Acid Metabolism
(p) Classification of Lipids
(q) Explain sequence of nutritional deficiency and specificity of assessment of nutritional status.
(r) What are the causes and types of malnutrition?
(s) Explain types of simple protein with examples
(t) What are the functions of food?
(u) Classify proteins on the basis of their composition and quality.
(v) Classify the lipids based on the structure
(w) Describe the fatty acids in brief.

Q. 5 Case Study or Long answer type question 12M

(a) What are the role of Fat in the body metabolism in terms of Chemical Composition, classification, digestion, function, deficiency systems and sources?
(b) Define Malnutrition? What are the causes of malnutrition and types of malnutrition?
(c) What are the role of Protein in the body metabolism in terms of Chemical Composition, classification, digestion, function, deficiency systems and sources?
(d) What are the role of Carbohydrate in the body metabolism in terms of Chemical Composition, classification, digestion, function, deficiency systems and sources?
(e) Describe the Fitness and Its Measurement in Details.
(f) Answer the following questions
(a) Define vitamins and classify them
(b) Explain the following in brief
- Role of vitamin E in vision
- B-Complex vitamins and energy metabolism

(g) Classify the mineral elements. List the five major minerals and describe the functions, deficiency symptoms and sources of these 5 minerals.