

NCC-003-047402 Seat No. B. Voc. (Pharm. Analysis & QA) (Sem. IV) (CBCS) Examination April / May - 2017 BVPAQA - 402 : Food & Beverages Analysis Faculty Code: 003 Subject Code: 047402 Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 Instructions: (1) All questions are compulsory & carry equal marks. (2) Draw diagram and/or scheme wherever necessary. 1 (A) Answer the following Questions: 10 Define Carbohydrates. (1) (2) All amino acids are optically active except one, give the name of it. Give the name of the method by which total (3)nitrogen of milk is found. Give reaction of triglycerides with NaOH. **(4)** Milk is an example of _____ (suspension, (5)colloid) Name the indicators used for estimation of calcium & magnesium in milk Draw the chemical structure of caffeine. (7)Vanillin Hydrochloride method is used for the (8) estimation of . Define fat solvents. Give any one example of it. (10) Give any two examples of anti-oxidant substance. (B) Answer the following Questions: 20 Differentiate between Monosaccharide's and

- Polysaccharides.
- Write about the roles/functions of carbohydrates. (2)
- Discuss method of Preparation of Sample of Butter.

- (4) Discuss method for determination of Moisture in Ghee.
- (5) Enlist major constituents of milk in brief.
- (6) Enlist major constituents of soft-drinks.
- (7) Describe the classification of fats and oils.
- (8) Write in brief about soluble and insoluble fibers.
- (9) Vegetable fats preserve long time than animal fat.
- (10) Solubility of fat in organic solvents is increases with increases the side chain length of fatty acids.
- 2 Answer the following Questions : (Any Four)

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- (1) Give a detailed account of reactions of Monosaccharide's.
- (2) Describe procedure for determination of Milk Fat in Yoghurt.
- (3) Explain method to estimate amount of total protein in milk.
- (4) Describe in detail: Folin-Denis method for estimation of tannins in tea.
- (5) How will you estimate total carbohydrate in soft drinks?
- (6) Define Iodine value & Write down its Analysis.
- 3 Answer the following Questions : (Any Four)

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- (1) Classify amino acids based on their structure and polarity.
- (2) Describe procedure for determination of Milk Fat (by Acid Digestion Method) in Cheese
- (3) Describe the process for determination of calcium in milk.
- (4) Explain analysis of phosphate content in soft-drinks.
- (5) Explain determination of Iodine Valuein brief.
- (6) Describe different physical & chemical Properties of fat & oil.