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Exam. Code : 103205 Subject Code : 1356

B.A./B.Sc. 5th Semester FOOD SCIENCE & QUALITY CONTROL (FSQC-9 : FOOD ANALYSIS)

Time Allowed—3 Hours] [Maximum Marks—75

Note :—All questions carry equal marks. Attempt any five questions with at least one from each section and not more than two from any section.

SECTION-A

1. ((j)	Write	a short	note on	polarimetry.
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(ii) A sampling plan should contain precise details on each of the following :

- (a) the sample size
- (b) the sample location
- (c) the sample collection.

Briefly define each of these.

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- (iii) Discuss Gerber method for analysis of milk fat. 4
- 2. (i) Name a laboratory scale colour measuring instrument. Explain how it measures colour. 5
 - (ii) How do we measure the specific gravity of milk ?Discuss its importance.
 - (iii) How do you determine adequacy of pasteurization of milk ?

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- 3. (i) Write a note on non-destructive quality testing of food. 7/
 - (ii) Discuss the internal and external parameters to measure egg quality ? 8

SECTION-B

- 1. (i) What do you understand by rheology ? What is its application in food quality measurement ? 5
 - (ii) What do you understand by Newtonian and non-Newtonian liquid foods ? Explain with the help of suitable examples.
 - (iii) Write a descriptive note on the comparison of instrumental results and sensory results of the quality.
- Name and explain the basic principle and procedures used to determine protein, ash, fat and moisture content in food.
- 3. (i) On what factors, the quality of meat depends ? Describe one instrument to measure the texture of meat. 5
 - (ii) How will you determine rheological properties of bakery products ?
 - (iii) Define the following terms :
 - (a) Viscosity (b) Thixotropy (c) Pseudoplastics
 - (d) Shear stress (e) Shear rate.

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SECTION-C

- 1. Enlist water-soluble and fat-soluble vitamins and discuss their role in nutrition. 15
- 2. (i) Give the classification of lipids with examples. 6
 - (ii) What are trans fats ? How do they influence human health ?
 - (iii) Discuss the pathologic effects of protein malnutrition in children. 3
 - (iv) Define calorific value and explain why the calorific value of fats is higher than that of glucose. 3
- 3. (i) Discuss the nutritional classification of protein. 8
 - (ii) Discuss in detail the two secondary structures of protein.7

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