GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2017 Subject Code: 2161409 Date: 03/05/2017 Subject Name: Bakery and Confectionary Technology Time: 10:30 AM to 01:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 14 0.1 **Short Ouestions** i) What is hard wheat? Write any two examples of maturing agents. ii) iii) Give the scientific name of cocoa plant. Name the commonly used equipment for chocolate refining. iv) Write the function of gluten in bread dough. v) Define dextrose equivalent (DE). vi) Give two examples of antioxidants. . vii) Which is the main leavening agent in biscuits? viii) Mention the required conditions to be maintained during final ix) proofing of bread. Which is most stable polymorphic form of cocoa butter? x) What are principal raw materials for manufacture of hard boiled xi) candy? **Define:** Glazing xii) What are different morphological parts of cocoa bean? xiii) Which step is important for flow property optimization of chocolate? xiv) 0.2 Write the uses of invert sugar in the preparation of bakery products. 03 (a) State the different grades of wheat flour obtained during milling. **(b)** 04 Describe the principles of conching process during chocolate (c) 07 manufacture OR What is the significance of tempering? Describe how tempering is (c) 07 carried out? **Q.3** Classify the ingredients according to their function required for cake **(a)** 03 preparation. Write a note on 'breaking and winnowing during chocolate 04 **(b)** manufacture'. 07 (c) Discuss the characteristics and role of different parts of egg in bakery industry. OR Give flow diagram for manufacture of hard boiled candy 03 0.3 **(a)** State the common defects in cake with their causes. 04 **(b)** What do you mean by leavening process? Describe shortly the types 07 (c) of leavening agents available for food industry. What are the effects of under fermentation and over fermentation of 03 0.4 **(a)** bread dough? Explain different polymorphic forms of cocoa butter **(b)** 04 Discuss the various physico-chemical changes occur during baking of 07 (c) bread dough.

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Q.4	(a)	Comment on 'Properties of liquid glucose'	03
	(b)	Enlist the mixing stages of bread dough passes during mixing and shortly explain any three stages.	04
	(c)	Briefly describe the flow diagram of bread preparation.	07
•	(a)	Write in brief about chemistry of starch.	03
	(b)	What are different principles of chocolate cooling?	04
	(c)	Enlist the methods of cake mixing and briefly describe any two methods.	07
		OR	
Q.5	(a)	Write a note on ' chocolate enrobing'	03
	(b)	What do you mean by cookies, crackers and biscuit? Give one example of each.	04
	(c)	Explain the important features of cake formulas according to fat quantity and sugar quantity.	07
