## GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VIII.EXAMINATION – WINTER 2016

Subject Code: 181405Date: 22/10/2016Subject Name: Food Ingredients and Flavour Technology (Department Elective - II)Time: 02:30 PM to 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Define 'Flavor' and give importance of flavor in food industry. Explain how primary taste detection is regionally distributed on tongue? Write a note on 'other aspects of taste'	07 07
Q.2	(a)	<ul><li>What are Food Additives? Discuss the role of following food additives with suitable examples:</li><li>i) Antioxidants ii) Stabilizers</li></ul>	07
	(b) (b)	Describe the distillation methods used for extraction of flavor component. OR Write a detailed note on 'Chemesthetic response'	07 07
Q.3	(b) (a) (b)	Describe various parts of human olfactory system. Describe the CIE system for colour measurement. <b>OR</b>	07 07 07
Q.3	(a) (b)	Explain the mechanism involved in detection of sour and salty taste. Write short notes on: i) Attributes of colour ii) Laws of colour matching	07 07
Q.4	(a) (b) (c)	Describe the principle and mode of action of sugar as a preservative? What is HLB Index? Write its importance. Define: i) Halophiles ii) Osmophiles iii) Plasmolysis <b>OR</b>	07 04 03
Q.4	(a) (b) (c)	<ul> <li>Write short notes on:</li> <li>i) Baking Powder as a leavening agent</li> <li>ii) Class II Preservatives</li> <li>Explain the terms 'Natural Flavourings' and 'Nature Identical Flavourings'</li> <li>Which parameters are considered during selection of emulsifier in food?</li> </ul>	07 04 03
Q.5	(a) (b)	Explain the role of enzymes in flavour development with suitable example. Explain various principles of isolation of aroma compounds. <b>OR</b>	07 07
Q.5	<b>(a)</b>	Describe the flavour extraction process of: i) Vanilla flavour ii) Cocoa flavour	07
	<b>(b)</b>	Write in brief about sweet taste and explain the AH-B theory for detection of sweet taste.	07

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